CONSTRUCTION NEWS

Supplement to ENGINEERING NEWS. 220 Broadway, New York, October 10, 1907.

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CONSTRUCTION NEWS.

PLANS AND SPECIFICATIONS ON FILE.

(* denotes that this work is advertised in Engineering News.)

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RAILWAYS.

ALVA & SOUTHERN.—Incorporated in Oklahoma, with a capital stock of $5,000,000, to build a railroad from Kiowa, Kan., south 250 miles through the counties of Woods, Dewey, Custer, Roger Mills and Greer, in Oklahoma to the Red River. Headquarters will be at Alva, Okla., and St. Louis, Mo. The incorporators include: L. T. McKnight, Pres. and Gen. Mgr.; J. B. Cheadle, Vice-Pres.; G. E. Autrey, Secy., and William Haviland, Asst. Secy., all of Alva, Okla.; and G. E. Autrey, Treas., of Granton, Okla.

ARIZONA—The Phoenix (Ariz.) "Gazette" states that the Superior-Arizona Mine is having a survey made for a railroad from Florence, Ariz., to the camp, a distance of 35 miles. Fred Hoar is Supt., at Florence.

BUCHANAN & DICKINSON—A railroad twelve miles long will be built by this company from Elkhorn City to Gdundy, Va. The line is under survey and the contract for construction has been let to JAMES HATCHER, of Pikeville, Ky. L. Isaacson is Pres., Jane, Va.; L. S. Speer, Ch. Engr., Pikesville, Ky. Headquarters of company are at Coal Grove, Ohio.

BUFFALO, ROCHESTER & PITTSBURGH.—Company has awarded a contract for a second track from Brockwayville, Pa., to Carmen, the expenditure involved being $500,000. When the work is completed many long curves will have been straightened and a tunnel of 1,200 ft. built that will decrease the distance one mile, making the stretch one of the best on the division. The line from Punxsutawney to Ashland, where branches lead to Rochester and Buffalo, will then be double-tracked all the way. J. M. Floesch, Ch. Engr., Rochester, N. Y.

CANADIAN PACIFIC.—The Regina-Saskatoon branch, 165 miles long, and the Moose-jaw branch extension, 100 miles, have been authorized by the directors at a cost not to exceed $20,000 a mile.

The directors have authorized an extra issue on the Sudbury branch not exceeding $10,000 a mile for 226 miles.

JOHN BRADLEY of Brandon, Man., is reported to have secured the contract for building the Regina-Bulyea (Sask.) line of the C. P. R. The length of the new line is 45 miles, and it is expected it will cost about $300,000.

According to the Montreal "Star," Robert Kerr, Passenger Traffic Mgr., at Montreal, has stated that the C. P. R. will commence to build at once a line from Nanaimo to Alberly on Vancouver Island.

CASCADE VALLEY.—W. A. C. Rowes, Pres., 121 Eleventh St., Seattle, Wash., states that this company will build a railway from Rockport to Horseshoe Basin, Chelan County, 35½ miles. Grading will begin soon. Capital stock, $1,000,000.

CHICAGO, MILWAUKEE & ST. PAUL.—Announcement is made that "this company will construct a tunnel 2,000 ft. long, a cut almost a quarter of a mile through cement soil, and through a hill 78 ft. high in order to reach Ellensburg, Wash. This section, about 20 miles long, will cost $1,000,000. LORIMER & GALLAGHER, Rookery Bldg., Chicago, are the contractors. They expect to have work completed by July, 1908. Work at the tunnel will not begin for some time, as it is necessary to establish a small village at the scene of operation. A complete electric plant will be installed and work on the tunnel will be carried on day and night."

CHICAGO, ROCK ISLAND & PACIFIC.—W. M. Whitenton, Division Supt., at Trenton, Mo., is reported as saying that the company will expend for improvements about $1,000,000 at Little Rock, Ark.; $300,000 at Winnfield, La.; and $300,000 at Eldorado, Ark. J. B. Berry is Ch. Engr. at Chicago, Ill.

Rails will soon be laid, it is reported, on the cut-off between Amarillo, Tex., and Tucumcari, N. Mex., a distance of 111 miles. Grading was completed several years ago, and according to the provisions of a new charter 22 miles of track must be laid before Jan. 1, 1908. The work will commence at Amarillo and proceed westward.

CHOCTAW, NEWCASTLE & WESTERN.—A charter has been granted to this company in Oklahoma to build a road from Lawton, Okla., to South McAlester, Ind. T., 200 miles, with a belt line around South McAlester and branch line to Krebs, Ind. T. The cost is estimated at $4,000,000. It has been capitalized for $5,000,000. Headquarters of the company will be at Lawton, Okla. The incorporators are J. R. Lebosquet, of Little Rock; L. C. Rose and A. W. Underwood, of Chicago, and S. T. Pierson and W. P. Dix, of Shawnee, Okla.

CORTLAND & AUBURN.—Walter Loring Webb, Ch. Engr., 2222 Land Title Bldg., Philadelphia, Pa., states that this company proposes to build a steam railroad from Cortland to Auburn, N. Y., 36 miles, via Homer, Scott, Glen Haven and Owasco, and that surveys have been made. B. L. Webb is Pres., N. A. Bundy, Vice-Pres. and Gen. Mgr., Cortland, N. Y., writes us that contracts for construction will be let about Nov. 10.

CORVALLIS & ALSEA RIVER.—Surveys have been completed from Corvallis, Ore., to Bellfountain, Ore., 20 miles, and that grading for seven miles of this distance has been completed. The road is to extend from Corvallis to Blachly, 38 miles. 50-lb. rails will be used. The road is being constructed principally for the handling of lumber. John Malhase is Ch. Engr. and Stephen Carner is Pres., both at Corvallis, Ore.

DANVILLE & SCOTTSVILLE.—Right-of-way for this line, which is to extend from Danville, Ky., to Scottsville, Tenn., 100 miles, has been secured from Scottsville to McKinney, about 15 miles south of Danville. Surveys for the rest of the distance are now in progress. J. S. Allen is Pres., New York City; A. E. Hundley is Secy., Danville, Ky. Noted on Aug. 29.

GREAT SOUTHWESTERN.—A. L. Gibbs, Wagoner, Ind. T., Ch. Engr., states that the proposed line will be about 1,400 miles long, extending from St. Louis, Mo., to El Paso, Tex. Operations will begin at Salisaw or Vian, Ind. T., on the Missouri Pacific Ry., and it is expected to begin work by Jan. 1. R. B. Moseley is Pres., J. R. Rice, Vice-Pres. and H. P. Moseley, Secy., all at Muskogee, Ind. T.; Peter Deichman is Secy. and Gen. Solicitor, at Tulsa, Ind. T. Noted on Sept. 12.

KENTUCKY HIGHLANDS.—B. L. Dudley, Supt., Frankfort, Ky., states that the railroad is under construction from Frankfort to Versailles, Ky., 17 miles, via Crow and Millville, and that grading and track laying are in progress from Frankfort to Millville, 7.3 miles. The LOUISVILLE CONSTRUCTION CO. has the contract. S. S. Bush is Pres., Louisville, Ky.; A. A. Bond, Ch. Engr., Frankfort, Ky.

LAKE SHORE & MICHIGAN SOUTHERN.—Referring to the report that the L. S. & M. S. Ry. Co. would build an extension of the Franklin & Clearfield branch from Franklin, Pa. to Clearfield and Versailles, S. Rockwell, Ch. Engr., Cleveland, Ohio, writes us that nothing has been decided about this extension and that no construction work has yet been authorized east of Brookville, Pa.

MILWAUKEE, PEORIA & ST. LOUIS.—F. W. Cherry, of Des Moines, Iowa, is interested in this company, which plans to build a railroad in Illinois. The northern terminal probably will be Rockford and the southern terminal at Peoria.

NAPA & LOCKPORT.—This company has filed articles of incorporation at Santa Rosa, Cal. The road is to be constructed from Napa to Lakeport, a distance of 90 miles, with a branch line from Monticello, 14 miles. The capital stock is placed at $2,000,000, of which $110,000 has been actually subscribed. The incorporators are: E. C. Amedee, of San Francisco, and A. J. Brown and W. F. Ansell, of Alameda County.

NASHVILLE & NORTHEASTERN.—We are officially advised that this company plans to build a railway from Corbin, Ky., to Clarksville, Tenn., via Burnside, Monticello and Albany, Ky., and Lillydale, Celina, Spivy, Red Boiling Springs, Lafayette, Westmoreland, Bucklodge and Springfield, Tenn., 250 miles long. Directors are Samuel Woodward, Cincinnati, Ohio; James Denton, Somerset, Ky.; J. H. Shearer, Monticello, Ky.; and S. B. Anderson and W. T. Moore, Celina, Tenn. Samuel Woodward is Pres.; James Denton, Secy.; and S. B. Anderson, Treas. Principal office, Celina, Tenn. No surveys have been made, but right-of-way is partly obtained. The first section, from Burnside to Monticello, is nearly completed. Other construction work will be undertaken next summer.

NEVADA.—William A. Farish, 10 Wall St., New York, is interested in project to build a railroad from the Glasgow Western Exploration Co.'s copper mine at Rich Canyon, near Battle Mountain, Lander County, Nev., to a connection with the Nevada Central R. R.

At a recent meeting of the directors of the Nevada Hills Mining Co. held in Salt Lake City, Utah, it was decided to take steps towards the building of a railroad to Fairview from Fallon, Nev., a distance of about 45 miles. A committee, consisting of Windsor V. Rice, W. H. Clark, John T. Hodson and John A. Kirby, was appointed to go into the matter of securing rights-of-way, make surveys and obtain estimates on the cost of construction, etc.

NORTHERN RAILWAY OF MAINE.—This company, authorized under a special act passed by the last legislature and intended to connect two branches of the Bangor & Aroostook, has filed its certificate of organization. The capital stock is $500,000. The purpose is to build and operate a railroad from the terminus of the Bangor & Aroostook at Fort Kent, Me., in a westerly direction across the Fish River, through the plantations of St. John and St. Francis, 16 miles, to a point nearly opposite the mouth of the St. Francis River; also from Fort Kent in a northerly and easterly direction through Frenchville, Madawasha, Grant Isle and Van Buren, a distance of 45 miles, to connect with the Bangor & Aroostook terminus at Van Buren, Me. The directors and officers are: Patrick Theriault, of Grant Isle; Vincent M. Theriault, of Fort Camp; and Matthew F. Goodrich. Edson E. Goodrich is Treas.; and Arthur H. Lewis, is Pres., of Waterville, Me.

OCILLA, PINEBLOOM & VALDOSTA.—B. B. Gray, Pres., Pinebloom, Ga., writes that this company, which was recently granted a charter in Georgia, proposes to build a railroad from Ocilla via Lax, Willacoochee, Pinebloom and Milltown to Valdosta, Ga., 66 miles. Company is doing its own construction. Twelve miles of the line are completed from Pinebloom to Lax. J. H. McCranie is Ch. Engr., Pinebloom. Right-of-way is mostly obtained and surveys are being run.

OUACHITA VALLEY.—J. A. Freeman, Vice-Pres. and Treas., St. Louis, Mo., states that this company proposes to build a railroad from Millville to Stark (El Dorado post-office), Ark., 26 miles, by the way of Harbour, Locust Bayou, Clarks, Roark's

Landing, and Blumetown. M. C. Smith is Pres., St. Louis; W. P. Barr is Gen. Supt., Millville, Ark.

PEOPLES' RY.—We are officially advised that Mcgargel & Co., 5 Nassau St., New York, N. Y., are interested in construction of the Peoples' Ry., which will connect Tyler and Canton, Tex., passing through Ben Wheeler; length, 40 miles. J. M. Howe, Tyler, is Engr.; Ben B. Cain, Tyler, is Pres. Noted fully on Sept. 5.

SOUTHERN UTAH.—This company, which was recently incorporated in Utah, will let contracts at once for construction of a railroad from a connection with the Rio Grande Wes ern Ry., near Price, to the head of Miller Creek, a distance of 20 miles. Capital stock, $100,000, of which $20,000 has been subscribed. Officers: Pres., A. A. Sweet; Vice-Pres., H. L. Thomas; Secy. and Treas., G. S. Payne. The officers with N. B. Browne and W. H. Sweet compose the board of directors. Headquarters, Salt Lake City. Surveys are made and right-of-way secured.

SOUTH CAROLINA.—Citizens of Bamberg, S. C., have organized a company to build a railway connecting with the Atlantic Coast Line at Ehrhardt, and the Atlantic Coast Line and the Seaboard Air Line at Denmark, paralleling the Southern Ry. from Bamberg to Denmark. It will be about 20 miles long. E. T. LaFitte, J. F. Folk, J. Aldrich Wyman and H. J. Brabham are the committee in charge.

TEXAS.—A company is being promoted at Ballinger, Tex., to construct a railway from Ballinger to Abilene. Capital stock is $200,000, all paid in. W. J. McDaniel is Engr.-in-Charge. The promoters include C. A. Doose, Pres., and Dan Baker, Cashier of the First National Bank of Ballinger; Jos. Wilmeth, Cashier Citizens National Bank; C. S. Miller, Pres., and E. D. Walker, Cashier of the Ballinger State Bank and Trust Co.; W. J. Miller, Secy. Arctic Ice and Fuel Co.; G. M. Vaughan, Pres. Missouri Milling Co.; Jack McGregor, hardware merchant; Judge C. H. Willingham, Judge John L. Guion, C. O. Harris, attorney, of Ballinger; and R. K. Wylie and Cicero Smith, of Mineral Wells. The general offices of the company will be located at Ballinger. Work will begin here and the shops, roundhouses, etc., will be established here.

UNION CENTRAL.—W. J. Hogue, Pres., Dallas, Tex., announces that this company, recently chartered, proposes to build a railway from Dallas, Tex., to New Orleans, La., 500 miles, the mileage in Texas being 225 miles and in Louisiana 275 miles. The route is by way of Palestine and Nacogdoches, Tex., and Pickering, La. There will be a branch from Wortham to Tyler, Tex., 125 miles, which has been surveyed for the entire distance and graded from Wortham to the Trinity River, 20 miles. The main line is under survey from Dallas to the Louisiana state line. It is expected to let contracts for construction in about 60 days. Noted on Sept. 26.

WALKERSVILLE & IRELAND.—Incorporated in West Virginia with a capital stock of $25,000 to build a railroad from Walkersville, Lewis County, to Marlinton, Pocahontas County, about 60 miles. Offices will be at Grafton, W. Va. The incorporators are: W. E. Wick, W. B. Wick and M. L. Wick, of Ireland, W. Va.; and R. H. Sawyer and W. H. Bailey of Grafton, W. Va.

WARRENSBURG & CLINTON.—Surveys are reported to have begun for a steam railway line to be constructed between Warrensburg and Clinton, Mo. M. L. Belt, Higginsville, Mo., is interested.

WILMINGTON, BRUNSWICK & SOUTHERN.—Survey is under way between Wilmington and Southport, N. C., 30 miles. J. C. Mintz is Engr. and C. W. Whitehead is Pres., both at Wilmington, N. C. Noted on Sept. 26.

WISCONSIN & NORTHERN—Regarding the announcement on Sept. 5 that this company had been granted permission by the State Railroad Commission to build an extension from North Crandor, Wis., to the northern boundary of Wisconsin, a distance of 34 miles, C. H. Hartley, Gen. Mgr., Oshkosh, advises us that this matter is not yet fully decided upon. The intention of the company is to build to the Gogebic range and connect with the Northern Pacific. The company is capitalized at $1,000,000. The W. & N. R. R. now operates 27 miles of line.

ELECTRIC RAILWAYS.

BROCKTON, MASS.—A petition for authority to issue $1,000,000 of stock and bonds has been filed with the Massachusetts Railroad Commission for a line of single-rail railway, to be constructed by the companies which now control the patents taken out by E. Moody Boynton. The petition comes as the sequel to the revival by the last Legislature of the charter secured some years ago by Mr. Boynton for the Boston, Quincy & Fall River Bicycle Railway Co. The present petition is entered in the name of the reorganized combination which is understood to hold the patents under the title of the Boynton Bicycle Electric Railway Companies. It asks for $500,000 capital stock and $500,000 bonds. Mr. Boynton is Pres. and Arthur A. Cogswell is Secy. and Treas. The first section to be built is from Brockton to Quincy. The matter comes before the Railroad Commission for public hearing on Oct. 22.

EASTHAMPTON, MASS. — Eugene D. Parks, of Russell, is interested in a scheme to build an electric road from Easthampton to Loudville and then through West Farms to Florence, with a branch from Loudville to Westhampton. Power-house would be built at Loudville.

MOUNT VERNON, N. Y.—With a capital of $1,000,000 the Mount Vernon & Eastern R. R. has been formed to construct a standard-gage steam or electric railroad from Mount Vernon to Lewisboro, 35 miles long, in Westchester County. The directors are: Oakleigh Thorne, 135 Broadway; William H. Chesebrough, 111 Broadway; Carleton Bunce, 135 Broadway; Howard K. Wood, 43 Wall St.; Charles E. Mitchell, all of New York; Marsden J. Perry, of Providence, R. I.; George H. Hansel, of Cranford, N. J.; Kennett K. McLaren, of Jersey City, N. J.; and Allen Wardwell, of Lawrence, N. Y.

RICHMOND, S. I., N. Y.—An electric railway line, to extend from Richmond to Tottenville, a section of Staten Island now served by stages, is projected by Thomas B. McGovern, of the Broad Exchange Bldg., and Cornelius G. Kolff, of 50 Broadway, New York City. The line will be standard gage, about ten miles long, and will cost about $400,000. The line will be known as the Richmond & Tottenville Elec. Ry. It will pass through Rossville and Kreischerville.

WELLSVILLE, PA.—A charter has been granted at the State Department to the Dillsburg & Wellsville R. R. Co. to build a line from a connection with the Dillsburg & Mechanicsburg line at Dillsburg via the Stony Run, Beaver Creek & Doe Run Railroad to Wellsville. The line will be 7½ miles long. Capital stock is $75,000. The directors are: August C. Hetrich, of Wellsville, Pres.; Robert J. Beet, Joseph Milligan, West D. Brougher, J. J. Seiple, J. N. Logan, Edward W. Shapley, Daniel W. Beitzel and S. G. Bushey. Noted last week.

FINLEYVILLE, PA.—Application has been made for a charter for the Finleyville Southern St. Ry. Co., which desires to build a 14-mile line from Finleyville to Bentleyville via Hackett and other small towns. Several bridges will be built along the line, which will traverse valuable coal lands. The incorporators are: M. J. Hayden, T. M. Hayden, J. E. Hayden, H. B. Hayden and S. C. Wilson.

POTTSVILLE, PA.—The Pottsville Union Traction Co. will begin construction at once of a branch between Middleport and Tamaqua, eight miles. See issue of Sept. 12.

SUMTER, S. C.—W. H. Ingram is reported to be interested in construction of an electric street railway. W. H. Lyles and T. C. Williams, of Columbia, and others are also interested.

ST. AUGUSTINE, FLA.—T. R. Osmond, Gen. Mgr., states that the St. Johns Light & Power Co. is planning to build five miles of additional track, also purchase considerable rolling stock. Noted on Aug. 29.

ALEXANDRIA, LA.—The Kent Co., Ltd., has filed its charter, capital $100,000, and among other things proposes to operate electric and other street railways. A. Albert is Pres.; First Vice-Pres., Wm. M. Cady; Second Vice-Pres., Benjamin Weil; Secy. and Treas., Roy Albert. The directors include the first three officers and S. Barrett, W. B. Stewart, J. A. White, T. G. Bush, E. J. Hardtner, L. B. Baynard, Jr., J. H. Overton and C. M. Waters.

FINDLAY, OHIO.—At a recent special meeting of the Findlay & Marion Railway & Light Co., the proposition to sell the right-of-way, franchises and other property of the company was rejected. All the engineering work and other preliminaries have been finished and financial arrangements made to build a 47-mile electric line over a private right-of-way, with easy grades and curves. Construction work is to begin in the spring. G. W. Meeker, Columbus, Ohio, is Secy.

EVANSVILLE, IND.—The Evansville, Petersburg & Vincennes Railroad Co. has been incorporated in Indiana for the purpose of constructing, equipping and operating an electric railroad from Evansville through Vanderburg, Warwick, Gibson and Pike Counties to Petersburg, connecting a number of intervening towns and cities. The company also proposes to furnish light and power. Capital stock is $10,000, all paid in. F. W. Cook, L. J. Herman, H. E. Meyer, T. M. Honeywell and John M. Funke, of Evansville, are the incorporators.

DANVILLE, IND.—The Indianapolis & Danville Traction Co. will build a line to Amo, a distance of seven miles.

ISHPEMING, MICH.—The Common Councils of Ishpeming and Negaunee have granted the Marquette County Gas, Light & Traction Co. extensions of franchises for the operation of its street car line until 1936. In return for the extension the company is to expend $10,000 in each city on the improvement of its traction system. G. A. Rockwell, Oshkosh, Wis., is Gen. Mgr.

TRAVERSE CITY, MICH.—The Grand Traverse Railway Co. has been incorporated with a capital stock of $450,000. The company will build an electric railway from Traverse City to Elk Rapids and then to Charlevoix. Articles of association of the Traverse City Street Railway Co., which will operate the railway in the city, were also filed. Its capital is $25,000.

BUNKER HILL, ILL.—J. T. W. Rudisill, Pres. of the Wood River, East Alton & Bunker Hill Traction Co., East St. Louis, Ill., advises us that this company proposes to build an electric railway from Wood River through East Alton, Bethalto, Moro and Bunker Hill, 20 miles. Surveys are partly secured. Contracts will be let when right-of-way is secured. The Rude Engineering Co., First National Bank Bldg., East St. Louis, is in charge of the engineering work.

CHAMPAIGN, ILL.—H. C. Billingsley, Vice-Pres. of the Corn Belt Traction Co., which will build between this city and Bloomington, paralleling the Peoria division of the Cleveland, Cincinnati, Chicago & St. Louis Ry., has made the statement that the first dirt would be turned on the new route Nov. 1, and that nine miles of track would be laid this winter. This would connect Champaign with Mahomet.

MANCHESTER, IOWA.—Surveys are now being made by the Manchester & Davenport Interurban Co., which was recently organized at Davenport, with a capital stock of $15,000, all of which is paid in. The officers are: Pres., George T. Baker, of Davenport; Vice-Pres., J. R. Voorhees, of Monticello; Secy., F. W. Rank, of Moline; Treas., T. F. Halligan, of Davenport. W. H. Kimball, of Davenport, is Ch. Engr.

OSHKOSH, WIS.—The Winnebago Traction Co., of Oshkosh, Wis., which was forced into the hands of a receiver some time ago because of inability to pay the interest on its $1,000,000 of 5% bonds, is to be reorganized. A reorganization committee, headed by Emerson McMillin, of 40 Wall St., New York City, has issued a plan which calls for a deposit of its stock and bonds with the Bankers' Trust Co., 7 Wall St., as depositary. This line connects Oshkosh, Neenah and Omro, 40 miles.

CLINTON, IOWA.—The Wenatchee Valley & Northern Railway Co. has completed organization by filing articles of incorporation with the Secretary of State. The capital stock is $100,000 and the headquarters of the company are at Clinton, Iowa. The officers are: L. Lamb, Pres.; C. R. Lamb, Vice-Pres.; Petrel Davis, Treas.; G. E. Lamb, Secy., all of Clinton.

BEMIDJI, MINN.—The City Council has passed the ordinance granting to Carl C. Gowran, A. A. Carter and George W. Teitsworth the privilege of maintaining a street railway within the limits of the city of Bemidji for a period of 25 years. Noted on Sept. 5.

MINNEAPOLIS, MINN.—The Minneapolis, St. Paul, Rochester & Dubuque Electric Traction Co. has been organized at Portland, Maine, for the purpose of constructing, operating and maintaining traction lines, with $25,000,000 capital stock, of which nothing is paid in. Officers: Pres., Eben Winthrop Freeman, of Portland; Treas., E. L. Rackliff, of Portland. M. H. Boutelle, Minneapolis, is Secy.

MOOREHEAD, MINN.—The Board of Directors of the Northwestern Interurban Electric Railway Co. has elected the following officers: Thomas T. Bubb, Pres. and Ch. Engr.; James J. Lambrecht, Vice-Pres.; E. Y. Wheeler, Treas.; Samuel F. Crabbe, Consult. Engr., and Thomas R. Brown, Secy. It is understood that the new interurban line will be contracted for in sections. The company will fully equip and complete one section before starting on a new one. The general offices will be in Moorhead.

LITTLE ROCK, ARK.—W. H. Waugh, Ch. Engr. of the Little Rock & Pine Bluff Traction Co., Little Rock, advises us, under date of Oct. 5, that the contract for building this line, complete, has been let to J. J. FISKE & CO. They are advertising for the grading and pile trestle work. As soon as plans can be prepared bids will be asked for the power equipment, power-house, a 1,400-ft. steel bridge, and overhead work. The Traction Co. expects to let the grading contracts by Oct. 20. Line has been 75% located. Noted on Sept. 12 and Sept. 19.

GREENVILLE, TEX.—A mass meeting was held at this place recently to take steps toward organizing to build the interurban car line from Greenville to Bonham via Wolfe City and local system at the three towns. A committee composed of County Clerk Green, Max Patton, Dr. C. E. Cantrell and J. T. Jones was appointed to confer with the citizens of Wolfe City. A committee composed of W. L. Beckham, J. B. Murphy, W. M. McBride, T. R. East, A. Swan and Will H. Harrison was appointed to visit Bonham to take up the matter with citizens of that town. The matter of securing franchises and right-of-way will be taken up as soon as possible.

SAN ANGELO, TEX.—J. H. Ransom, of Hereford, Tex., Pres. and Gen. Mgr. of the proposed San Angelo Street Railway, is reported as saying that work will begin in 60 or 90 days. Noted on Sept. 5.

PUEBLO, COLO.—N. C. Van Natta, Ch. Engr., of 214 Central Block, Pueblo, is engineer for an interurban line projected from Pueblo east 65 miles or more. Survey completed on 16 miles of the line and contract for construction will be let Oct. 25. Work will require about 1,600 ft. of high steel viaduct and about six miles of heavy grading. Company is in the market for electrical equipment and supplies and later will ask bids for 200 to 250 cars, steel under-frame, 80,000 lbs. capacity. This railway will be standard-gage, built for heavy freight traffic. All matters relating to supplies and equipment should be addressed to Mr. Van Natta. N. Douthitt is Pres., Kansas City, Mo.

LAS VEGAS, N. MEX.—Wm. A. Buddecke, Pres. of the Las Vegas Ry. & Power Co., East Las Vegas, writes us that construction of a line to Mora is contemplated, but that no definite steps have yet been taken other than to secure part of the right-of-way.

BELLINGHAM, WASH.—Albert A. Haug may construct an electric railway connecting the Mt. Baker mining district with Bellingham.

PASCO, WASH.—Miles C. Moore, Pres. of the Columbia & Walla Walla Traction Co., Walla Walla, Wash., advises us that this company proposes to build from Pasco, via Wallula and Walla Walla, to Dayton, Wash., and to Lewiston, Idaho, 150 miles. Survey has been run and right-of-way secured as far as Dayton. Frank Bartlett, Seattle, is Ch. Engr.

SAN FRANCISCO, CAL.—The Northern Electric Railway Co., with a capital stock of $25,000,000, of which $333,000 has been subscribed, has filed articles of incorporation. The new organization has been formed to acquire the Northern Electric Co., the line of which runs from Chico to Sacramento; and the Shasta Southern, which runs between Chico and Hamilton, besides constructing new roads to the northern part of the state. The petition says it is proposed to build a road from Chico to Redding, a distance of 76 miles; from Sacramento to Folsom, 20 miles; from Sacramento to Hamilton via Woodland, with a branch to Colusa, 108 miles; from Sacramento to Yuba City, 28 miles. The directors are Alan W. Maginnis, Curtis Hillyer, Francis C. Van Deinse, Martin L. Washburn, Harry C. Mack, Charles Elsey and R. Augustus.

VENTURA, CAL.—F. M. Packard and J. P. Jones, of Los Angeles, have applied to the Board of Supervisors for a franchise for an electric railway from Ventura to Nordhoff.

LEWISTON, IDAHO. — Southeastern Electric R... Lewiston & ...gin construction within ... Co. will be... between Grangeville and ... days of the line ...field Co., Philadelphia. ...ston. The Secretary Engrs.

CALGARY, ALTA.—Bids are asked until noon, Nov. 1, by S. ... Works Com., (a) for the ... twelve miles of street ... head trolley work in the ... (b) for building a steel ... abutments over the Elbow ... of Calgary; (c) for ... with electrical equipment ... man is City Engr.

LIGHT AND POWER PLANTS.

(* *denotes that this work is advertised in Engineering News.*)

PITTSFIELD, VT.—Contracts are to be let soon by the Berkshire Street ... Co. for a high-tension electric transmission line from Pittsfield to supply additional power necessary for the operation of ... extension. The line will run to Bennington and will be about 33 miles ... volts cost, $50,000. A. B. Storrs ... Estimated Pres.

WESTERLY, R. I.—The Westerly Ry. & Lighting Co. has awarded the contract to A. SHERMAN'S SONS CO. the construction of a sub-station at Stonington. ... erect a ... erecting a transmission line ... company is ... ly and Stonington to transmit ... Westerly that borough for lighting ... tricity to P. Sheldon, Providence, R. I. ... Frank Pres.

NEW YORK, N. Y.—Bids will be asked until 2 p. m., Oct. 24, by James ... Sevenson, Comr. of Bridges, for electrical equipment of the University Heights bridge.

ALBANY, N. Y.—It is expected that at the next meeting of the Trustees of the Adelphi Club a resolution will be adopted favoring installation of an electric lighting plant in the club building, at 134 State St. Isaac M. Strasser is Pres. of the club.

BUFFALO, N. Y.—The Economic Power & Construction Co. has notified the Board of Aldermen that it purposes to begin at its convenience the construction of steam mains and electric light and power conduits in most of the streets of the thickly settled part of the city. The notice includes 85 streets in the Elmwood district, Baynes and Hoyt district, downtown and the near East Side. Bert L. Jones is Pres.

RIVERSIDE, N. J.—Estimates are being taken for construction of a 3-story producer house and gas manufacturing plant, to be erected for the Riverside Metal Co. Building will be 56 × 54 ft.

JERSEY CITY, N. J.—The Street and Water Board has adopted a resolution directing the Public Service Corporation to place all its electric wires on Grove St., between Grand St. and Newark Ave., underground as soon as possible. H. D. Whitcomb, Jr., Newark, N. J., is Gen. Mgr. Public Service Corporation.

JERSEY CITY, N. J.—The United Electric Co. of New Jersey, 109 Montgomery St., Jersey City, submitted the only bid to the Street and Water Board for lighting the streets of the city. The company offers to furnish arc lamps for $97.50 a lamp per year on a yearly contract, and $75 a lamp per year on a 5-year contract. The city is now paying the company $97.50 a lamp on a 5-year contract, which will expire Nov. 30.

YORKHAVEN, PA.—The Yorkhaven Water & Power Co. is doubling the capacity of its plant along the Susquehanna River. Within the next year ten additional turbine waterwheels will be added to the equipment, which will give the company a supply of 20,000 HP. for the market. Concrete bases for the contemplated improvements are being placed and contracts for the remainder of the work will be let at an early date. E. F. Baker, Yorkhaven, is Gen. Mgr.

PHILADELPHIA, PA.—The KEYSTONE CONTRACTING CO. has been awarded contract for furnishing and maintaining naphtha lamps for the city for 1908. The company's bid was $28.40 a lamp and $10.50 a post, and the bid of the Welsbach Street Lighting Co. of America was $29 a lamp and $9.50 a post. In all there are nearly 15,000 lamps in use in the various sections of the city. George Douty is Pres., Keystone Contracting Co.; George R. Stearns is Dir. Dept. Pub. Works.

PHILADELPHIA, PA.—See under Water Supply—Irrigation.

PHILADELPHIA, PA.—We are officially advised that the following bids were received on Contract 110, electrical machinery, for the Torresdale filter plant: (a) Installing three steam-driven generators, including condenser, air pump, piping and switchboard complete; (b) installing three turbine-driven generators, including condenser, air pump, piping and switchboard complete: J. F. Buchanan & Co., 36 North Fourth St., (a) $28,750, (b) $29,900; D'Olier Engineering Co., 121 South Eleventh St., (a) $33,680, $40,569; DRAVO, DOYLE & CO., 719 Arcade Bldg., (b) $25,150 (awarded contract), $24,550. Fred C. Dunlap is Ch. Engr.

FORT MONROE, VA.—Bids are asked until noon, Oct. 18, by Capt. Ernest R. Tilton, Constr. Q. M., for installing heating plant in Quarters 45 at this post.

ELKINS, W. VA.—Elkins Power Co., recently incorporated, will establish electric light and power plant, it is stated, constructing a brick power-house which will cost $5,000 to $6,000; engines, generators and other machinery to be installed at cost of $30,000. John T. Davis is Pres., N. I. Hall is Secy. and Mgr.; C. C. Bosworth is Supt.

RALEIGH, N. C.—The Agricultural and Mechanical College has awarded the following contracts in connection with power plant and electric lighting system: R. MacKENZIE, Greensboro, N. C., for heating plant; ALPHONS CUSTODIS CHIMNEY CONSTRUCTION CO., 95 Nassau St., New York, N. Y., 100-ft. chimney; total cost, about $50,000. W. H. Ragan, High Point, N. C., is Chn.

MILLEN, GA.—We are officially advised that arrangements are now being made to issue bonds for construction of electric light and water systems in this city. Bids will be received about Dec. 1. H. Q. Bell is Mayor; J. [illegible] McCrary & Co., Empire Bldg., Atlanta, Ga., are Engrs.

SAVANNAH, GA.—Bids are asked until Oct. 15 for electric, arc and incandescent lamps and sale of electric current to be used for [illegible]ination, heat or power. Harry Willink [illegible] Dir.

CHICKAMAUGA, GA.—The Crystal Springs Hosiery Co. has awarded contracts for power plant as follows: engine, HARDIE-TYNES MFG. CO., Birmingham, Ala.; electric generator and motors up to 300 HP., ALLIS-CHALMERS CO., Milwaukee, Wis.; two 100-H.P. boilers, BABCOCK & WILCOX CO., 85 Liberty St., New York; 110 × 6-ft. chimney, CUSTODIS CHIMNEY CONSTRUCTION CO., 95 Nassau St., New York; A. S. Pow[illegible] is Secy.-Treas., Chattanooga, Tenn.

CITRONELLE, ALA.—The Citronelle Light & Power Co. is having plans and specifications prepared by E. N. Cunningham, New Orleans, La., it is reported, for proposed light and power plant. When plans are ready estimates will be asked on machinery and supplies. J. A. Shannon is Pres.; S. E. Shannon Secy. and Treas., Box 288, Hattiesburg, Miss.

UNIVERSITY, ALA.—See under Buildings.

BESSEMER, ALA.—ROGERS & COSTON have the contract for the construction of gas plant. Buildings will be finished within 60 days and mains will be laid at once.

UNIVERSITY, MISS.—Bids probably will be received in the spring for rebuilding power plant of the University of Mississippi, recently burned. Cost will be between $10,000 and $15,000. D. S. Ross is Secy.

NEW ORLEANS, LA.—Bids were received Oct. 5 by the Bureau of Yards and Docks, Navy Dept., Washington, for the construction of a hot-water heating plant at the naval station, New Orleans, La.: Joseph A. Hurley, St. Paul, Minn., $23,656; C. C. Hartwell Co., Ltd., 213 Baronne St., New Orleans, (a) $24,764; (b) omitting steam driven pump, $24,155; (c) bidders' specifications, $20,847, $19,900; C. L. de Muralt, 114 Liberty St., New York, (a) $19,770; (b) $18,920; (c) $18,985; A. M. Lockett Co., Ltd., 343 Baronne St., New Orleans, (a) $17,700; (b) $17,200.

NEWPORT, TENN.—The citizens on Sept. 21 voted to issue $50,000 bonds to be used for the construction of water-works, a sewerage system and electric light plant. John M. Jones is Recdr.; C. H. Holland is Mayor.

PADUCAH, KY.—Bids are asked until Oct. 18, by the Commissioners of McCracken County, to install steam heating and electric light systems in the county court-house and jail.

LOUISVILLE, KY.—F. A. CLEGG & CO., 237 Third St., have contract at $26,500 to install electric-light and steam heating plant for city hall and engine-house. Joseph P. Claybrook is City Engr.

HUDSON, OHIO.—It is reported that James W. Ellsworth has decided to construct and present to this town an electric light plant and water-works, to cost about $10,000. Dr. W. I. Chamberlain and G. Mead will be Trustees, and E. L. Filius is Mayor.

COLUMBUS, IND.—The Columbus Gas Light & Coke Co. is reported to be reorganized and is said to be asking the City Council for franchise. The company contemplates the erection and equipment of a new gas plant.

CLAY CITY, IND.—The Clay City Lighting Co. will construct an electric lighting plant here and will receive estimates at once. J. M. Long and H. R. Vandevier are Dirs.

BICKNELL, IND.—Bids are asked by the Town Council for construction and equipment of a combined water and electric light plant.

ESCANABA, MICH.—E. E. Hatch, of Peilston, Mich., has secured an option on Boney Falls, 20 miles north of Escanaba, on the Escanaba River, and it is expected that he will acquire the rapids shortly and will commence their development soon. The water there drops 20 ft. in 20 rods. Mr. Hatch has served notice on the Escanaba Board of Public Works of his intention to submit a proposition to furnish power for the operation of the municipal lighting plant.

PAW PAW, MICH.—The FALKENAU ELECTRIC CONSTRUCTION CO., 108 LaSalle St., Chicago, Ill., has been awarded the contract for installing a complete hydro-electric plant for the city of Paw Paw. The electric equipment consists of a 150-KW. and an 80-KW. Allis-Chalmers water-wheel type generators for direct connection to water wheels, two 9-KW. belted exciters and a number of Allis-Chalmers motors, ranging from 15 to 40 HP. One of the latter is to be used to drive a triplex power pump. W. H. Mason, Paw Paw, is Secy.

WYANDOTTE, MICH.—ARBUCKLE, RYAN & Co., Toledo, Ohio., are reported to have secured contract for engine and the WESTINGHOUSE ELECTRIC & MFG. CO., Westinghouse Bldg., Pittsburg, Pa., the contract for other necessary equipment for extension to electric light plant, at $13,500.

MANITO, ILL.—Smith & Miller, of Bloomington, Ill., have been granted a 20-yr. franchise here for the purpose of operating an electric light plant.

WAUKEGAN, ILL.—Work will be started at once for a gas tank to be built by the North Shore Gas Co. It is to stand at the foot of Washington St. on the company's property and will have a capacity of 500,000 cu. ft. of gas. The capacity at present is 250,000 cu. ft. The tank is to be 94 ft. 3 ins. in diameter and the height will be 115 ft. George F. Goodnow is Gen. Mgr., Waukegan.

MENASHA, WIS.—The Common Council has considered an addition and alterations to the lighting plant here, it is stated, and will install 175-KW. generator. Bids will be asked for in about a month. S. S. Little is City Clerk.

DAVENPORT, IA.—The Independent Light & Power Co. is reported to have awarded to the McCARTHY IMPROVEMENT CO. the contract for laying 20 miles of gas mains.

NORTHOME, MINN.—The Village Council has granted a franchise to E. E. Bigham, of Minneapolis, to construct, maintain and operate an electric light system within the limits of the village of Northome for a period of 30 years. The ordinance granting the franchise provides that the plant shall be completed and in operation by Jan. 1, 1908.

FORT LEAVENWORTH, KAN.—Bids are asked by Capt. J. E. Normoyle, Q. M., until Oct. 12, for furnishing and installing electric fixtures in eight double sets non-commissioned staff officers' quarters, one double stable guard building, and two quartermasters' stables, and electric wiring in two quartermasters' stables at this post.

THOMAS, OKLA.—The city will establish an electric light plant in connection with water-works system, it is reported; building 35 × 60 ft. will be erected; cost of both plants, $30,000. O'Niel Engineering Co., Wilson Bldg., Dallas, Tex., has charge of construction.

RED FORK, IND. T.—We are officially advised that bids will be received about Dec. 20 for constructing an electric railway and power plant to serve Red Fork, Tulsa, West Tulsa and Glenn Pool for the Midcontinental Traction Co. Plant will cost $100,000. Graham Burnham, Tulsa, Ind. T., is Mgr.; J. Robert Burnham, Tulsa, is Engr.

TELLURIDE, COLO.—W. H. Lepper, Arch., is preparing plans for an electrical plant for the Telluride Power Co., which, when fully developed, will have a capacity of 40,000 HP. At present the design is for a plant of half that capacity, with two 10,000-HP. generators. The power will be supplied by water from the Bear River, which is sufficient there for all purposes desired, and enough left over for the water rights of the farmers along the five-mile stretch of stream between the intake and the point of discharge. The water will flow through an 8-ft. diameter pipe of iron 1⅛ ins. thick, thus guaranteeing a plentiful supply. The system is to be coupled onto the Provo River system.

RENTON, WASH.—The City Council on Sept. 18 voted to take preliminary steps toward the installation of a municipal electric lighting plant, to cost about $25,000. A committee has been appointed to investigate and report plans to the Council.

UNIONTOWN, WASH.—The WASHINGTON-IDAHO LIGHT & POWER CO. has contract with the City Councils of Uniontown and Colton for furnishing electric current for lighting and for pumping the city water. The company has secured a 25-yr. franchise which allows it to use the streets for its poles. The extension of the company's lines will involve an expenditure of about $25,000.

PRINEVILLE, ORE.—The Prineville Light & Water Co. is contemplating installing a power plant on the Matoles next year to supply the county with electricity. Adrian Crooks, Prineville, is Mgr.

ROCKCREEK, ORE.—The Baker Light & Power Co. is contemplating improving its plant at Rockcreek. A. Welch, Baker City, Ore., is Mgr.; William Rankin, Ch. Engr.

SALEM, ORE.—The Portland General Electric Co., in this city, has awarded a contract to the WESTERN GAS CONSTRUCTION CO., 600 Seventh St., San Francisco, Cal., for a regenerative coal-gas plant, to be installed in place of the present equipment at a cost of $15,000. It is to be completed by Dec. 1, and as soon as the new plant is in operation the old plant will be entirely rebuilt. F. G. Sykes, Portland, Ore., is Gen. Mgr.; Rollin K. Page, Salem, is Local Mgr.

SAN DIEGO, CAL.—It is reported that arrangements have been made for installing a power plant for the electrical operation of the Los Angeles & San Diego Beach Ry. The plant of the Los Angeles-Pacific Co., located at Sherman, has been purchased and will be moved to San Diego. E. S. Babcock, Pres., has charge of the work.

LOS ANGELES, CAL.—The Edison Electric Co. is planning to begin work shortly on its Kern River No. 2 power plant. This station will be located on theKern River just above the dam and intake of its present No. 1 plant. There will be five stations in all on the river, with an aggregate output of 90,000 HP. A. L. Selig, Los Angeles, is Gen. Mgr.

REDDING, CAL.—The Northern California Power Co., which has begun the erection of a fourth power-house at the junction of the north and south forks of Battle Creek, is contemplating erection of a fifth power-house on South Battle Creek. The company has acquired possession of the George Hagen place with springs of water. A party of surveyors is now making surveys in the South Battle Creek country. E. V. D. Johnson, Redding, is Mgr.

OAKLAND, CAL.—We are officially advised that the Great Western Power Co., 115 Broadway, New York, N. Y., will construct a substation near the city limits of Oakland, for the purpose of transforming energy for commercial purposes. Specifications are out now for material to be used in construction. H. P. Wilson is Secy.; Velle, Cooper & Blackwell, 49 Wall St., New York, are Engrs. Noted on Sept. 26.

PASADENA, CAL.—C. C. Glass, Supt., estimates the cost of the improvements contemplated at the municipal electric plant, at $195,000.

ALAMEDA, CAL.—At an election held Sept. 21 the proposition to issue $305,000 of bonds for public improvements was carried. Among the improvements contemplated is included the erection of an addition to the power-house of the municipal electric light plant, the installation of additional machinery and the construction of a reservoir. Joseph B. Kahn, Alameda, is Supt.

SAN ANSELME, CAL.—The Northwestern Pacific R. R. Co., San Francisco, is planning improvements to its North Shore electric branch, from Sausalito to points in Marion County, involving an expenditure of $150,000. New electric generating equipment will be installed immediately at San Anselmo, and it is reported that the road will be electrically equipped to Point Reyes. At San Anselmo a substation will be established, to contain two 500-KW. motor-generators, leaving space for four more motor-generators to provide for the extension of the electric service to Point Reyes. James Agler, San Francisco, is Gen. Mgr.; W. C. Edes is Ch. Engr.

FRUITVALE, CAL.—Contracts have been let to an amount between $800,000 and $900,000 for equipment for the Fruitvale power station of the Southern Pacific Co., which will furnish electricity for operating its tramway lines east of San Francisco. The contracts were awarded in New York, N. Y., by A. H. Babcock, Electrical Engr. of the company, as follows: Boilers, to the PARKER BOILER CO., Pennsylvania Bldg., Philadelphia, Pa.; H. R. WORTHINGTON & CO., 118 Liberty St., New York, N. Y., for condensers and steam auxiliaries; WESTINGHOUSE MACHINE CO., Westinghouse Bldg., Pittsburg, Pa., for turbines and generators, and to the GENERAL ELECTRIC CO. for motors and other car equipment.

WINNIPEG, MAN.—Bids were opened Oct. 2 for the power plant to be built at Lac du Bonnet by the city. In all over 100 tenders were received and were referred to the Engineer's Department for tabulation. Cecil B. Smith, Consult. Engr., estimates the cost of the work at $2,750,000 against the $3,250,000 at first estimated. Successful bids will not be announced for several weeks owing to the number of bids received.

OLDS, ALTA.—The Board of Trade is arranging to secure expert opinion on the development of power at Little Red Deer, a distance of 13 miles. S. Craig, Olds, is interested.

KELOWNA, B. C.—The ratepayers have passed by-laws providing for an expenditure of $40,000 for water-works and electric lighting plant. J. F. Burne is interested.

BRIDGES.

(denotes that this work is advertised in Engineering News.)*

SPRINGFIELD, MASS.—The CULGINPACE CO., 1761 Carter Ave., New York, was awarded the contract by the Board of Supervisors on Sept. 28, for the construction of the cement arch over the Mill River at Peconsic Boulevard, at $9,680.

NEW YORK, N. Y.—The lowest bidder for the construction of the new steel bridge over the Harlem River at Madison Ave. was J. C. Rogers, 103 West 104th St., at $1,115,987. Other bidders were: Bernard Rolf, 39 Cortlandt St., $1,333,333; Phoenix Construction Co., 13-21 Park Row, $1,189,626; Maryland Steel Co., 71 Broadway, $1,324,567; Williams Engineering Co., 13-21 Park Row, $1,197,000.

COHOES, N. Y.—It is reported that the City Council has decided to replace the Columbia St. arch with a concrete arch 60 ft. in width. Estimated cost, $31,000. C. H. Van Auken is City Engr.

PITTSBURG, PA.—It is reported that the Pennsylvania R. R. Co. will build a new bridge across the Monongahela River at the Point. Estimated cost, $1,500,000. H. R. Leonard is Engr. of Bridges, Philadelphia, Pa.

PHILADELPHIA, PA.—The contract for the superstructure of the steel-decked girder bridge over the west branch of the Brandywine River was awarded by the Reading Ry. Co. to L. F. SHOEMAKER & CO., Harrison Bldg., City. The bridge will be four spans with a total length of 250 ft.

*PHILADELPHIA, PA.—Bids are asked until noon, Oct. 23, by George R. Stearns, Dir. Dept. Public Works, for constructing bridges under Schedule A. The structure to be constructed at Twelfth St., under the connecting railway, will be a 4-track, half through, solid floor, plate girder railroad bridge, 69 ft. 6 ins. long, 52 ft. wide. There will be 14,000 cu. yds. of grading. Appropriation, $70,000. Those at Wyoming Ave., over Frankford Creek, will be two separate concrete arch highway bridges, 571 ft. apart, each with a span of 90 ft. and width of 74 ft. Appropriation, $140,000. George S. Webster is Ch. Engr., Bureau of Surveys, City Hall.

DONORA, PA.—The County Commissioners of Westmoreland and Washington counties will advertise for bids within the next two weeks for construction of the proposed bridge connecting this city with Webster. The structure will be of steel and will cost about $75,000.

BALTIMORE, MD.—Plans are being prepared by B. Y. Fendall, City Engr., for the construction of the Edmondson Ave. bridge across Gwynn's Falls and the Western Maryland R. R. Estimated cost, $180,000.

CONOWINGO, MD.—It is reported that the Pennsylvania R. R. Co. will build a new steel bridge across the Susquehanna River. Estimated cost, $69,000.

*WILLIAMSPORT, MD.—Bids are asked until noon, Oct. 30, by the Washington & Berkeley Bridge Co., of Williamsport, Md., for constructing a reinforced concrete arch bridge, 15 spans, total length 1,570 ft., over the Potomac River at Williamsport. Edward W. Byron is Secy., Williamsport Bridge Co., Williamsport, Md.

WASHINGTON, D. C.—Bids are asked until Oct. 24 by H. F. Hodges, General Purchasing Officer, Isthmian Canal Comn., for the construction of a steel railroad bridge.

MOORESVILLE, N. C.—James Brown and others may build a toll bridge, connecting Iredell and Catawba Counties over the Catawba River. Estimated cost, $15,000.

ATLANTA, GA.—It is reported that the Southern R. R. Co. will replace the Jones Ave. bridge with a new structure. Estimated cost, $20,000. B. Herman is Engr. Bridges, Washington, D. C.

CINCINNATI, OHIO.—Contract for the construction of a new steel viaduct was awarded by the Board of Control to GRAINGER & CO. Estimated cost of bridge, $135,000.

AKRON, OHIO.—Bids are asked until 10 a. m., Oct. 23, by the Board of County Commissioners for furnishing material and performing the labor of constructing a bridge across the Tuscarawas River on the Haulk Road in Franklin Township, about a mile north of Clinton. Mark D. Buckmann is County Auditor; J. N. Payne is City Engr.

CLEVELAND, OHIO.—Bids are asked until 11 a. m., Oct. 12, for the construction of a culvert on Whitney Road, East Cleveland, by the Board of County Commissioners of Cuyahoga County. A. B. Lea is County Surveyor; Julius C. Dorn is Clk. of the Board.

HAMILTON, OHIO.—Bids are asked until 10 a. m., Oct. 22, by the County Auditor, for furnishing the necessary material and labor for the construction of the bridge at the Compton farm on the Cincinnati and Dayton Pike. Chas. Pabst is County Audr.

TOLEDO, OHIO.—THE TOLEDO-MASSILLON BRIDGE CO. has been awarded the contract to build a steel bridge for the Toledo, Wabash & St. Louis Ry. Co. at Blue Creek crossing, near Neopolis.

EATON, OHIO.—Bids are asked until 1.30 p. m., Oct. 26, by the Board County Commissioners, for the construction of a bridge across Elkhorn Creek, one mile south of New Westville, in the southwest quarter of Section 8, Jackson Township. C. W. Eidson is County Auditor.

STEUBENVILLE, OHIO.—The County Commissioners of Smithfield Township have awarded CARNES & FROWINE the contract for the construction of Concrete Bridge No. 27. The bid was based on 50 cts. per cu. yd. for excavation, $6.40 per yd. for concrete work and 33⅓ cts. per yd. for filling. They have let the contracts for Bridges Nos. 24, 25 and 28 to A. E. STRINGER at the following prices: Bridge No. 24, excavation, 41 cts.; concrete, $6.75, and fill, 35 cts. Bridge No. 25, excavation, 49 cts.; concrete, $5.90, and fill 37 cts. Bridge No. 28, excavation, 45 cts.; concrete, $6, and fill, 33 cts. Bids were also received for Bridges Nos. 10, 23, 26 and 29, but were rejected for various reasons, and new bids will be asked for at once by the County Engineer.

*TROY, OHIO.—Bids are asked until 10 a. m., Nov. 12, by E. E. Pearson, County Audr., Miami County, for construction of the substructure for a bridge and reinforced concrete culvert. H. J. Walker is County Engr.

ROCK FALLS, ILL.—The contract for the construction of the new bridge to be built over Howland Creek was awarded by a joint committee of Road Commissioners and Supervisors to the CLINTON IRON & BRIDGE WORKS, of Clinton, Iowa, at $3,755.

RACINE, WIS.—PETER GALLOWAY, 1700 West Sixth St., City, has been awarded the contract by the Board of Public Works for the construction of the substructure of the Lafayette Ave. bridge, at $8,175. The contract for the superstructure has been awarded to the MILWAUKEE BRIDGE CO., 1400 34th St., at $5,900.

COUNCIL BLUFFS, IOWA.—STARK & CO., Des Moines, Iowa, have been awarded the contract by the City Council for the construction of a concrete bridge over Indian Creek. Estimated cost, $6,000.

OTTAWA, KAN.—Bids are asked until noon, Oct. 12, by the County Commissioners, for the construction of three new bridges. W. O. Myers is City Engr.; J. H. Bell is City Clk.

LITTLE ROCK, ARK.—It is reported that the St. Louis, Iron Mountain & Southern Ry. Co. will build a new bridge to replace the Baring Cross bridge, which will cost $1,000,000.

GUTHRIE, OKLA. — The MIDLAND BRIDGE CO., Kansas City, has been awarded the contract by the Board of County Commissioners for the construction of ten new steel and frame bridges, at $9,000.

NAPA, CAL.—Bids are asked until 10 a. m., Oct. 15, by the Board of Supervisors, for the construction of a stone masonry arch bridge across Milliken Creek at "Little Trancas" crossing.

PLACERVILLE, CAL.—The bids opened by the Board of Supervisors for the steel span approach to the Lotus bridge were as follows: Hyde, Harjes & Co., $3,642; Jenkins & Wells, $3,642; Western Bridge & Construction Co., $3,592; M. B. White, $3,521.

FRESNO, CAL.—Bids are asked until 10 a. m., Oct. 19, by W. M. Miles, Clerk Board of Supervisors, for the construction of a pile bridge across Kings River.

HAILEY, IDAHO.—Bids are asked by W. J. Horne, County Clk., of Blaine County, at Hailey court-house, until Oct. 14, for the construction of a bridge over Big Lost River.

CRANBROOK, B. C.—O. H. PEPPARD, Missoula, Mont., has been awarded the contract for the construction of a new bridge across the Moyre River south of the international boundary in Idaho, at $3,200.

SOUTH BATTLEFORD, SASK.—The contract for the substructure of the government bridge across the Saskatchewan River here which was abandoned by Kelly Bros., Winnipeg, Man., has been let to NEWMAN & CO., Regina, Sask. Cost, $100,000.

WINNIPEG, MAN.—BUCHANAN & CO. have been awarded the contract for erection of wooden Howe truss bridge across Winnipeg River, in connection with the power development, at $44,127.

CALGARY, ALTA.—See under Electric Railways.

BUILDINGS.

SPRINGFELD, MASS.—G. Wood Taylor, 425 Main St., has prepared plans for a club house to be erected by the Nayasset Club on West State St., to cost $119,000. W. H. Nevins and E. A. Carter are members of the Building Commission.

NORTH GROSVENOR DALE, CONN.—A. FALES & SON, South Framingham, Mass., have contract for constructing the Tourtellotte Memorial High School building at $140,000. McLean & Wright, 110 Tremont St., Boston, Mass., are Archs.

GENEVA, N. Y.—Plans are being prepared by Arthur C. Nash, 1170 Broadway, New York, for a city hall, to cost $125,000. A. P. Rose is Mayor.

BUFFALO, N. Y.—The Sisters of St. Joseph have let contract to JOHN LANNEN, 67 Oak St., for a 3-story brick fireproof structure, to be used as a school. This is an addition to their present building on Main St., near Humboldt Parkway. Cost, $125,000. A. A. Post, 420 Brisbane Bldg., is Arch.

James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., has rejected all bids received for the construction of a marine hospital building at Buffalo, N. Y., as being in excess of the appropriation.

NEW YORK, N. Y.—We are officially advised that A. J. ROBBINS & CO., 123 East 23d St., New York, has contract to construct a 7-story brick and stone stable, 100 × 200 ft., for the American Express Co., 65 Broadway. Charles W. Romeyn, 55 Broadway, is Arch.

NEW YORK, N. Y.—We have been officially informed that contract will be let in about 30 days for constructing a 12-story apartment house at Seventh Ave. and 58th St., for Alwyn Court, Inc., 437 Fifth Ave. Building will be of stone and terra cotta construction, 100 × 115 ft., and will cost $900,000. Harde & Short, 3 West 29th St., are Archs.

W. R. H. Martin, 56 West 33d St., of Rogers, Peet & Co., has awarded to CHARLES T. WILLS, 156 Fifth Ave., the general contract to erect a 16-story addition to the Hotel Martinique, Broadway and West 33d St., for which H. J. Hardenbergh, 1 West 34th St., has completed plans. The new structure is to cost $800,000, and will cover a plot 53.9 × 98.9 ft.

Robert D. Kohn, Arch., 107 Fifth Ave., informs us that bids will be received about Nov. 1 for constructing a 12-story loft building, 98 × 105 ft., at 19 West 21st St. for David Spiro, 656 Broadway. Building will be constructed of brick and stone and will cost $350,000.

NEW YORK, N. Y.—The following bids were received on Sept. 26 by the Park Board for erecting an addition to Metropolitan Museum of Art, to be known as Library Wing (addition G): Buckley Realty Construction Co., 624 Madison Ave., $90,000; Luke A. Burke & Sons Co., Inc., 25 West 42d St., $90,713; Calumet Construction Co., 15 East 59th St., $91,721; Thomas Cockerell & Son, 147 Columbus Ave., $98,000; Guidowe & Galardi Co., 1 Madison Ave., $103,100; Richard E. Heningham, 1 Madison Ave., $94,-127; George Hildebrand, 38 Park Row, $101,-900; Kelly & Kelley, Inc., 45 East 42d St., $93,735; John H. Parker Co., 225 Fourth Ave., $98,978; M. Reid & Co., Inc., 114 West 39th St., $98,880; Thompson & Kelsey, $96,-874; Thomas J. Waters, $95,000, and William Werner, 892½ Forest Ave., $90,527. Samuel Parsons, Jr., is Pres. of Bd

Neville & Bagge, Arch., 217 West 125th St., have advised us that contracts are being let for construction of two apartment houses, 6-story, brick and stone, 80 × 90 ft. and 60 × 87 ft. to cost $140,000 and $90,000. Buildings will be erected at Morningside Ave. and 118th St. for the West Side Construction Co., 321 West 92d St.

We are officially informed that L. A. Goldstone, Arch., 110 West 34th St., is preparing plans for two 6-story brick and stone apartment houses, 39.6 × 90.6 ft. and 80 × 80.11 ft., to be erected on Riverside Drive and 138th and 139th Sts. Buildings will be built for Hensel Construction Co., 302 West 120th St., and will each cost $225,000.

NEW YORK, N. Y.—The following bids were received Oct. 7 by the Armory Board, Hall of Records, N. Y., for building an armory for the Second Battery, N. G., N. Y. (exclusive of excavating), at the corner of Franklin Ave. and East 166th St., Boro. of the Bronx: Guidone & Gilardi, 1 Madison Ave., $398,500; Thomas Cockerill, 147 Columbus Ave., $442,500; William Werner, 892 Forest Ave., $448,400; Fleischmann Realty & Construction Co., 170 Broadway, $444,000; Kelly & Kelley (Inc.), 45 East 42d St., $461,-147; John H. Parker Co., 225 Fourth Ave., $407,985; Curran Construction Co., New York, $540,000; George Hildebrand, 38 Park Row, $473,000; Luke A. Burke Sons & Co., 25 West 42d St., $460,000; Patrick Gallagher, 1183 Broadway, $427,542.

The bids received for excavating the plot for proposed armory building for the Second Battery, N. G., N. Y., at the corner of Franklin Ave. and East 166th St., were: Abbott-Gamble Co., 32 Broadway, $12,600; Thomas Crimmins Construction Co., 444 East 69th St., $11,485; Columbian Co., 39 Courtland St., $7,931; Kavanaugh & Seymore, $6,200; Thompson & Kelsey, $6,839.

FORT JAY (New York post-office), N. Y.—Bids are asked until 11 a. m., Oct 15, by the Constructing Quartermaster, Governor's Island, New York Harbor, for construction, plumbing, heating, wiring and lighting fixtures, of a post exchange and gymnasium at Fort Jay, Governor's Island.

*FORT WOOD (New York post-office), N. Y.—Bids are asked until 11.30 a. m., Oct. 18, by G. C. Burnell, Constr. Q. M., for installing storm sash for new barrack and wireless telegraph station at this post.

TRENTON, N. J.—Conner Bros., Lowell, Mass., were the lowest bidders for a 4-story brick and stone addition, 25 × 130 ft., to the U. S. post-office at Trenton. Cost, $125,000.

NEWARK, N. J.—We are officially advised that Nathan Myer, Arch., Metropolitan Bldg., has received estimates for constructing a reinforced concrete manual training high school building. Estimates were in excess of appropriation of Board of Education. Noted, Sept. 12.

Hyman Rosensohn, 188 Market St., is reported to be preparing plans for six 4-story brick store and apartment houses, to be erected at Belmont and Avon Aves., for Ginshry & Elin. The total cost is to be about $125,000.

ATLANTIC CITY, N. J.—Milligan & Webber, Archs., 520 Walnut St., Philadelphia, are preparing revised plans for an 8-story hotel, at Atlantic City, for a company headed by Newlin Haines. Estimated cost, $1,000,000.

PRINCETON, N. J.—It is reported that plans have been completed for a physical laboratory, which is to be erected at Princeton University at a cost of about $900,000. Work is to commence at once. Plans have also been completed for the geological and biological laboratory, which is to be erected at a cost of $600,000, but work on this will not commence for several months. Woodrow Wilson is Pres.

EASTON, PA.—A. A. Ritcher, Arch., 779 Cumberland St., Lebanon, Pa., advises us that contracts will be let about Dec. 1, for constructing a fireproof granite and brick banking building, 32 × 158 ft., to cost $180,-000. The structure will be owned by the Northampton National Bank.

WILKINSBURG (Pittsburg post-office), PA.—We are officially informed that contract for constructing a hospital and nurses' home for the Woman's Association of the United Presbyterian Church has been let to WILLIAM B. BENNETT, 741 North Negley Ave.., Pittsburg; CARSON & WHITE, Allegheny, Pa., have plumbing contract. Contracts for heating, electrical work, hardware and elevator have not been let. J. L. Beatty, 146 Sixth St., Pittsburg, Pa., is Arch.

PITTSBURG, PA.—James Knox Taylor, Superv. Arch., Treasury Dept., Washington, has rejected all bids recently received for the construction of a marine hospital building at Pittsburg, as being in excess of the appropriation.

BALTIMORE, MD.—Bids were received as follows Oct. 7 by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the construction of an extension to the post-office building at Baltimore, Md.: Henry Smith & Son Co., Custom House, Baltimore, $154,400; Milton C. Davis, Baltimore, $152,875; Noel Construction Co., German and Calvert Sts., Baltimore, $147,-900, 12 months; Charles McCaul Co., 10 North Eleventh St., Philadelphia, $134,561. Time, unless otherwise specified, June 1, 1909.

WASHINGTON, D. C.—The Officer of Construction in charge of construction of the Engineering School, Washington, D. C., has decided to reject all bids received Sept. 3, for erection of officers' quarters at the School, as being in excess of the amount available.

WASHINGTON, D. C.—Bids are asked until 2 p. m., Oct. 24, by Bernard R. Green, Supt. of Constr., Office of Building for National Museum, Library of Congress, for furnishing and setting buff Bedford limestone and marble column shafts and marble bases for the screens in the rotunda of the new building for the National Museum, in this city. Plans and specifications are on file at office of Engineering News, New York.

UNIVERSITY, ALA.—University of Alabama will erect buildings, for which Frank Lockwood, Arch., Adams St., Montgomery, Ala., has prepared plans. The engineering building will cost $100,000 and will probably be of mill construction; museum (geology and biology), cost $100,000, will be fireproof; power and heating building, cost $50,000. Plans have not been completed and date for opening bids is not fixed. G. H. Jones is Bursar.

MEMPHIS, TENN.—Walter Harrison, Birmingham, Ala., will prepare final plans and supervise construction of proposed union passenger station for Memphis Terminal Railroad Co., it is stated. Main station will be 200 × 200 ft., with 50-ft. platform all around; yard with space for 440 coaches; express and baggage rooms, each 50 × 250 ft. About $3,000,000 is to be expended on passenger station and $2,000,000 on terminals. John H. Watson is Pres.

NASHVILLE, TENN.—Right Rev. Thomas S. Byrne has received specifications and had plans prepared by Thompson, Asmus & Norton, Cole Bldg., Nashville, for erection of proposed cathedral of gray brick and stone construction with stone trimmings. The main auditorium will be 85 × 130 ft.; two stories in center with 1-story side portions; center 50 ft. high, sides 26 ft. high and tower 150 ft. high. Cost, between $150,000 and $200,000. Foundation has been completed.

TOLEDO, OHIO.—H. W. Wachter, 701 The Nasby, has completed plans and will receive bids until Oct. 15 for a 4-story building, 100 × 150 ft., for the Y. W. C. A., 321 Erie St. Cost, $125,000.

CINCINNATI, OHIO.—P. Sullivan, 320 East Third St., is contemplating the erection of a hotel on Carlisle and Central Aves., at a cost of $150,000.

TERRE HAUTE, IND.—Vonnegut & Bohn, Archs., Indiana Trust Bldg., Indianapolis, advise us that the contract to erect 8-story fireproof office building, 50 × 120 ft., on Sept. 20 was awarded to the BEDFORD STONE CONSTRUCTION CO., Traction Terminal Bldg., Indianapolis. The building will be erected for the Terre Haute Trust Co., and will cost about $185,000.

INDIANAPOLIS, IND.—We are officially informed that contract will be let about Jan. 1, for constructing a 5-story fireproof building, brick, stone and steel, 135 × 195 ft., for the Y. W. C. A. Building will cost $300,000, and equipment, $50,000. Foltz & Parker, Indiana Pythian Bldg., are Archs.; A. H. Godard is Secy.

ANN ARBOR, MICH.—Donaldson & Meier, Penobscot Bldg., Detroit, have let general contract to KOCH BROS., Ann Arbor, for erecting a 2-story and basement cut stone alumni memorial building for the Board of Regents of the University of Michigan. Jas. H. Wade is Sec., Ann Arbor. Cost, $107,000.

DECATUR, ILL.—Bids are asked until Oct. 12, by the Pythian Home Board for building a home in Decatur. Deal & Ginzel, Lincoln, Ill., are Archs. E. R. Wright, Taylorville, Ill., is Secy. Estimated cost, $125,000.

ENGLEWOOD (Chicago post-office), ILL.—Clifford Bros. will construct a theater, store and office building on Halsted St., in Englewood, to cost $125,000. Plans for the building are being completed by J. E. O. Pridmore, First National Bank Bldg., Chicago. It will be four or five stories high and will front 26 ft., with a depth of 128 ft. It will be of fireproof construction. The front will be of pressed brick, iron and plate glass and the interior will be elaborately finished and heated with steam. Clifford Bros. are now located on the east side of Halsted St., between 62d and 63d Sts. Bids for the construction of the new building will be received within a few days.

CHICAGO, ILL.—We are officially advised that general contract for constructing University Hospital at Congress and Lincoln Sts., has been awarded to BULLEY & ANDREWS, 115 Dearborn St., Chicago. Building will be constructed of brick, tile and reinforced concrete, will be four stories high, 50 × 130 ft., and will cost $100,000. Richard E. Schmidt, 172 Washington St., is Arch.

L. G. Hallberg, Arch., 84 LaSalle St., has let carpenter contract to WILLIAM SCHRICK & CO., 1510 West Ohio St., for a 6-story brick and reinforced concrete construction warehouse, 65 × 70 ft., at 1332 Wabash Ave., for the Republic Metal Ware Co., 23 Randolph St. Cost, $125,000.

GEORGE A. FULLER CO., Marquette Bldg., has secured the general contract for constructing the 21-story fireproof LaSalle Hotel, 174 × 161 ft., at corner of La Salleand Madison Sts., for the LaSalle Hotel Co. Cost, $2,500,000.

Armour & Co., Union Stock Yards, have had plans prepared for an office building at the stock yards. It will be four stories, 185 × 195 ft., of brick, stone and of steel construction with composition roof, galvanized iron cornices, plate glass, hardwood trim and floors, nickel plumbing and combination light fixtures. $375,000. Work is to be done by the day. R. C. Clark is Supt. of Construction.

NORMAL, ILL.—Bids are asked until 9 a. m., Oct. 19, by the Board of Education of the State of Illinois, Charles L. Chapen, Ch. Bldg. Com., for the erection of a building for manual arts and auditorium, to seat 1,000, on the grounds of the Illinois State Normal University, at Normal. Building will have two stories 120 × 126 ft., and will be built of brick and stone, with oak trimming, maple floors, combination light fixtures and nickel plumbing. Cost $110,000.

CHIPPEWA FALLS, WIS.—Bids are asked by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., until 3 p. m., Nov. 15, for the construction, including plumbing, gas piping, heating apparatus, electric conduits and wiring, of the U. S. post-office at Chippewa Falls.

MILWAUKEE, WIS.—Van Ryn & De Gelleke, 211 Grand Ave., have plans ready for bids for the normal school building for the city. Cost, $200,000.

MUSCATINE, IOWA.—We are officially advised that contract for the erection of the 3-story stone and concrete county courthouse has been let to W. J. McALPINE of Dixon, Ill., at $108,500, and work will begin immediately. Other bids were: Superior Construction Co., Toledo, Ohio, $114,550; George Rickman & Son Co., Kalamazoo, Mich., $117,400; F. X. White, Eldora, Iowa, $118,345; James Rowson & Son, $120,000; General Construction Co., 106 Mason St., Milwaukee, $125,000; McArthur Construction Co., Chicago, Ill., $129,870. A. I. Lawrence is County Audr.

ST. LOUIS, MO.—Charles H. Deitering, Arch., Missouri Trust Bldg., is preparing new plans and will receive bids in about ten days for 4-story apartment building, 230 × 74 ft., at Grand and Castleman Aves., for the Shisler, Bidwell Building Co. Brick, stone and terra cotta and reinforced concrete will be used in construction. Estimated cost, $200,000.

KANSAS CITY, MO.—Jarvis Hunt, Dwight Bldg., has submitted plans, it is stated, which have been accepted, for a 20-story steel fire-proof, marble and terra cotta office building, which the Great Western Life Insurance Co., R. A. Long Bldg., contemplates erecting at Tenth St. and Grand Ave., at a cost of about $1,500,000. It is expected that contracts will be let within 30 days. O. L. Van Landingham is Pres.

Howard E. Huselton, of Kansas City, Robert T. Newberry, 184 LaSalle St., Chicago, Ill., and associates contemplate erection of music hall. Plans are being prepared by James Oliver Hogg, New York Life Bldg., and call for erection of structure six stories high, 98 × 132 ft., steel; exterior of brick and terra-cotta, fireproof. Cost, $350,000.

INDEPENDENCE, MO.—Bids are asked until Oct. 31, for constructing a county home for Jackson County, to have three stories, and to cost $225,000. There will be two buildings, standing 1,250 ft. west of the Independence and Lee's Summit Rock Road, west of the present county buildings. The main building will be L in shape, and will have a frontage of 309 ft. and a depth of 232 ft. The building will have a basement. The rooms for the inmates are to be 8½ × 15 ft., lighted by electricity and heated by steam. In the smaller building, 50 × 110 ft., the first floor will be used for a dining hall and the second for an auditorium, to accommodate 500 persons. The buildings are to be constructed of native limestone. The floors will be of granitoid [illegible] and the roofs of concrete, covered with tar [illegible] gravel. Frank S. Rea, Dwight Bldg., K[illegible] City, is Arch.

DENVER, COLO.—J. A[illegible]rguson is reported to be completing p[illegible] for a 4-story office building to be built [illegible] the lots from 1715 to 1731 Champa St., [illegible]ing the Railway Exchange building, w[illegible] he owns. The foundations of the new bu[illegible] will be built solidly enough to support [illegible] stories and both the new building and [illegible]tlaway Exchange building probably [illegible] be raised to that height eventually. Th[illegible] building is to cost $125,000 and is to [illegible]mpleted by next fall.

*SEATTLE, WASH.—Bids [illegible] asked until 3 p. m., Nov. 12, by the U[illegible] Regents, Post-Intelligencer Bldg., S[illegible] for constructing buildings to be k[illegible] as the Engineering, Chemistry and A[illegible]m Buildings for the State University [illegible]shington, on the university campus. [illegible] & Galloway, 504 Mission St[illegible] Howard Cal., are Archs.; A. P. Sawy[illegible] Francisco, William Markaam, Secy. [illegible] Pres., and

The New Washington Impro[illegible]t Co. has announced its intention to co[illegible] immediately construction of an add[illegible]al wing to the New Washington hotel. Th[illegible], which will be erected at the northwe[illegible]er of the building, where the foundat[illegible] and three stories are already in, will co[illegible]50 rooms and cost $100,000. That will [illegible] the total number of rooms 330, and wil[illegible] the cost of the building, with furnishing[illegible] to $1,000,000.

The Metropolitan Build[illegible] has been incorporated to erect two office buildings on Union St. and Fifth Ave., at a cost of about $500,000. James A. Moore, Lumber Exchange, C. F. White and others are reported interested.

SAN FRANCISCO, CAL.—Ran[illegible], Kellog & Crane are preparing plans for a group of reinforced concrete buildings to be erected at San Francisco for the Transport Service, Army Dept. The buildings to be erected are six 3-story storehouses, measuring 60 × 200 ft. each; a 3-story-and-basement office building, 50 × 150 ft.; a number of houses for officers, and a system of docks. The cost will be $1,250,000.

LOS ANGELES, CAL.—The Union Labor Temple Association, 540 Maple St., Los Angeles, is preparing to erect a building to cost $150,000. It will be seven stories high and will require about 435 tons of structural steel. The auditorium will have a tilting floor so arranged that it can be raised or lowered five feet by the use of jacks. Thornton Fitzhugh, Laughlin Bldg., is Arch. JOLIET BUILDING & IRON CO. have the steel contract and ROBERTSON & SCHINDLER the contract for enclosing the structure. Other contracts are not awarded. Electric elevators will be installed.

MONTREAL, QUE.—Contract for constructing post-office in Montreal has been let by the Department of Public Works, Ottawa, Ont., to PETER LYALL & SON, 88 King St., Montreal, at $487,537. Fred Gelinas, Ottawa, is Secy.

CALGARY, ALTA, CAN.—The construction on a department store to be erected here by the Dominion Stores, Ltd., will commence Dec. 1. The building will be five stories high and constructed of reinforced concrete at a cost of $1,000,000.

WATER SUPPLY—IRRIGATION.

(denotes that this work is advertised in Engineering News.)*

FAIR HAVEN, VT.—The water system will be extended by the construction of two reservoirs. Estimated cost, $15,000. Washburn Fancher is Village Engr.; D. J. Durick is Village Pres.

ROME, N. Y.—The following bids were opened Sept. 25 by the Board of Water Commissioners for construction of the Rome water-works system: A. C. Martin, Seneca Falls, entire work, Fish Creek dam, gatehouse and tunnel, $107,250; tunnel, $79,-250; dam and gatehouse, $29,817; New York Continental Jewell Filtration Co., 15 Broad St., New York, all work, $166,851; D. M. Rosser Engineering & Construction Co., Kingston, Pa., $129,432; tunnel, $112,125; dam and gatehouse, $17,307; G. H. Aldridge, Ossining, all work, $160,722; F. G. Francis, Ossining, all work, $147,409.

ELMIRA, N. Y.—PATRICK MURRAY has been awarded the contract by the Board of Public Works for the construction of the conduit on Railroad Ave. from Water to Church Sts., at 85 cts. a ft. for digging and 40 cts. a ft. for steel bend pipes.

*ROME, N. Y.—Bids will be asked during the early winter months by the Board of Water and Sewer Commissioners, Harvey S. Bedell, Chn., for the following work: Intake dam on Fish Creek, to consist of a cyclopean masonry dam and gate-house, requiring about 2,500 cu. yds. masonry; a 6-ft. tunnel through rock, 5,500 ft. long connecting with gate-house at the Fish Creek dam and a manhole at its southerly end; a concrete masonry aqueduct, 36 ins. in diameter and 31,000 ft. long, including masonry culverts and other appurtenances, connecting the manhole at the southerly end of tunnel with a distributing reservoir at the Stokes; a 12,000,000-gal. distributing reservoir at the Stokes, with earth embankments and masonry gate-house and appliances. Knight & Hopkins, Rome, N. Y., are the Engrs.

NEWARK, N. J.—Bids are asked until 11.30 a. m., Oct. 10, by G. F. Drum, County Engr., for furnishing approximately 8,000 ft. of tile drainage pipe of various sizes to be delivered f. o. b. cars at Overbrook, on the Caldwell Branch of the Erie R. R.

PHILADELPHIA, PA.—We are officially advised that DRAVO, DOYLE & CO., Arcade Bldg., Philadelphia, has secured contract, at $8,480, for installing two turbine-driven sand washer pumps at the Torresdale filter plant. Contract No. 119. Fred. C. Dunlap is Ch. Engr.

GREENSBURG, PA.—The Jamison Coal & Coke Co., of Greensburg, will have plans prepared for the construction of a reservoir and

water-works plant a short distance from George, Pa. Reservoir will cover 30 acres, and the plant will supply water to the five coal and coke plants in the vicinity, the supply being piped from the central reservoir.

NORFOLK, VA.—The Bureau of Yards and Docks, Navy Dept., Washington, D. C., has awarded to the CHICAGO BRIDGE & IRON CO., Chicago, Ill., the contract for furnishing and installing a 100,000-gal. tower and tank at the Norfolk, Va., navy yard, at $11,500.

WHEELING, W. VA.—The Baltimore & Ohio R. R. Co. has completed arrangements for construction of a reservoir at Glover's Gap, on the Fourth Division, at a cost of about $17,000, which will improve the present facilities for storing water at this point for locomotive use. The new storage reservoir will have a capacity of 1,000,000 gals., with a gravity supply to watering tubs, and will do away with the shortage of water which is experienced annually at Glover's Gap, and provide sufficient storage facilities to tide over a drought. D. D. Carothers, Baltimore, Md., is Ch. Engr.

CHARLOTTE, N. C.—The following contracts, it is reported, have been awarded by the Water Commissioners for laying proposed water mains: McWANE PIPE WORKS, Lynchburg, Va., for about 425 tons of 20, 16, 12 and 6-in. piping at about $15,000; RENSSALAER MFG. CO., Troy, N. Y., valves; ROE-STEPHENS MFG. CO., Detroit, Mich., 40 fire hydrants; GEORGE O. TENNEY & CO., Richmond, Va., to lay the mains. Entire cost, about $30,000.

ATLANTA, GA.—Bids will soon be asked by the Water Board, Frank Rice, Pres., for 15,000 ft. of 36-in. water pipe for extending main from Casey's Hill to the reservoir, and for 30,000,000-gallon pump.

SHREVEPORT, LA.—The Shreveport Water-Works Co. is making investigations with a view of changing the source of supply of city water. E. L. Keene is Supt., Shreveport, La.

IRONTON, OHIO.—Bids are asked until noon, Oct. 15, by Board Public Service for the material and labor for the necessary excavation, concrete and piling for the foundation of the valve well at city water-works, for clear water system for the Ironton water-works.

COLUMBUS, OHIO.—We are officially advised that WESTWATER & CASEY have been awarded the contract by the Board of Public Service for the construction of c.-i. force mains for the improvement of the water supply, at $163,907. Henry C. Maetzel is City Engr.

COLUMBUS, OHIO.—We are officially advised that the contract for the improvement of the water supply by the installation of cast-iron force mains, has been awarded to WESTWATER & CASEY, Dublin Park, Columbus, at $163,907. Other bidders were W. C. Holliday, Columbus, $162,590; Charles V. Taylor and John M. Beckett, Columbus, $162,683. The engineer's estimate was $160,034.

*PONTIAC, MICH.—Bids are asked until noon, Oct. 21, by the Board of Public Works, Pontiac, for furnishing a boiler of 200 HP. Joseph J. Thorp is City Clerk.

*OWOSSO, MICH.—Bids are asked until Oct. 23, by the Board of Public Works, Owosso, for furnishing and installing two Scotch marine boilers at the Owosso water-works plant.

BANGOR, WIS.—The ARPIN BROS., of Atlanta, Wis., have been awarded contract by the Minnesota State Drainage Commission for the excavating of 310,000 yds. of ditching in Northern Minnesota, at $46,000.

MARINETTE, WIS.—Bids are asked until noon, Oct. 19, by the Commissioners of the First Drainage District of Marinette County, for construction of ditches and drains of the First Drainage District.

ROSEAU, MINN.—Bids are asked until 2 p. m., Oct. 16, by the State Drainage Commission for construction of a State drainage ditch, No. 51, in the counties of Roseau and Kitson; 516,089 cu. yds. of excavation is included. George A. Ralph is State Drainage Engr.; S. G. Iverson is Secy., State Drainage Comn.

BELLE FOURCHE, S. DAK.—The Secretary of the Interior has executed a contract with DEVORE BROS. & FARLOW, of Vale, S. Dak., for the construction and completion of a portion of the South Canal, Belle Fourche irrigation project, S. Dak. The amount of the contract is $103,500.

LITTLE ROCK, ARK.—The CRESCENT CONSTRUCTION CO. has been awarded the contract by C. T. Coffman, County Judge, for draining Dark Hollow, at $86,062.

LUFKIN, TEX.—A water-works plant with a daily capacity of 300,000 gallons will be installed soon, it is stated.

BROWNSVILLE, TEX.—It is reported that Swanson & Co., composed of A. C. Swanson and E. F. Rowson, will establish an irrigation plant, costing about $45,000, in order to develop about 8,000 acres of their land.

BEAUMONT, CAL.—G. O. Newman, Consult. Engr., for C. B. Eyer, Pres. of the Beaumont Land & Water Co., is drawing plans for a plant, soon to be built, to develop water for irrigation and domestic use.

SAN BERNARDINO, CAL.—ARTHUR S. BENT, of Los Angeles, has been awarded the contract for construction of a controlling tower on the Little Bear Valley reservoir site, by the Arrowhead Reservoir & Power Co., at $3,200.

DINUBA, CAL.—Bonds for $20,000 will be issued for the construction of a municipal water-works system.

OAKLAND, CAL.—Plans have been prepared for a pumping plant. Estimated cost, $50,000. P. C. Turner is City Engr.

LEWISTON, IDAHO.—The City Council has authorized the issuance of $37,200 of bonds to improve and extend the water system.

SEWERAGE.

(denotes that this work is advertised in Engineering News.)*

BOSTON, MASS.—Bids are asked until noon, Oct. 10, by John J. Leahy, Supt. of Sewers, for the construction of a sewerage system in Wachusett St., between Weld Hill St. and the old sewer.

SOUTHBRIDGE, MASS.—The contract for building 10,000 ft. of sewerage in Mechanics and East Main Sts. has been awarded to C. E. TRUMBULL & CO., Boston, for $11,199. The other bidders were: Bruno & Pettitti, $15,490; F. T. Ley & Co., $14,610; F. D. Fuller & Co., $15,120; Aimee Langevin, $13,728; Hassam Paving Co., $12,434; George M. Bryne, $12,259; N. Duron, $12,020.

LONG ISLAND CITY (L. I.), N. Y.—J. F. Clancy was the lowest bidder on the sewer to be laid in Twelfth Ave., from Jamaica to Grand Ave., at $4,103.

BATAVIA, N. Y.—Plans for a sewerage system are being prepared by Alexander Potter, Consult. Engr., 143 Liberty St., New York.

AUBURN, N. Y.—Bids are asked until Dec. 3 for the construction of the Fourth, Fifth, Sixth and Seventh ward sewers and disposal plant.

BUFFALO, N. Y.—Bids are asked until 11 a. m., Oct. 22, by the Department Public Works, for constructing a 15 and 10-in. tile sewer in the southwest side of South Side Parkway between Woodside Circle and 175 ft. northwest of Bloomfield Ave., and a 12 and 10-in. tile sewer in Bloomfield Ave., between South Side Parkway and Ithaca St.

For constructing a brick sewer from 33 to 45 ins. in the east side of Fillmore Ave. between Delavan and Kensington Ave. For constructing a 20 and 18-in. tile sewer in Eller Ave., between Genesee St. and Tresselt Ave. Francis G. Ward is Comr. Pub. Works.

KINGSTON, N. Y.—The HAGGERTY CONTRACTING CO., 215 W. 125th St., New York, has been awarded the contract by the Board of Water Supply, New York, for the intercepting sewer in Wilbur Ave., from the old West Shore trestle to Rondout Creek, at $14,568. J. Waldo Smith is Ch. Engr.

SARATOGA SPRINGS, N. Y.—Bids are asked until 3 p. m., Oct. 16, by the Sewer, Water and Street Commission for constructing an 8-in. terra cotta sewer through Church St., from a point opposite Van Rensselaer St.; on Church St., west to the west corporation line, with the necessary house laterals and manholes. For constructing a 6-in. terra cotta sewer in Henry St., between Philadelphia and Spring Sts., connecting with the Spring St. sewer, together with the necessary house laterals, lampholes and manhole. For constructing an 8-in. terra cotta sewer through Granite St. to Alger St.; through Alger St. to Clinton St., and through Clinton to Van Dam St., connecting with the Van Dam St. sewer, together with the necessary house laterals, manholes and lampholes.

TRENTON, N. J.—A sewer will be constructed in Cherry St.

Bids will soon be asked for building a drain from Bondinot St. to Hermitage Ave., and sewers No. 385 on Barbara St. and No. 66 on St. Paul Ave. A. Swan, Jr., is City Engr.

ALTOONA, PA.—It is reported that sewers will be laid in Eighth Alley, Bell and Walnut Aves.

BUTLER, PA.—A sewer probably will be constructed in Short St.

YORK, PA.—A new sewerage system is contemplated, the project being in the hands of a private corporation.

WILLIAMSPORT, PA.—It has been decided to complete the Grafius Run sewer from Laurel St. to the borough line of East Fourth St. Estimated cost, $8,000. James F. Fisher is City Engr.

READING, PA.—The Select Council has passed an ordinance authorizing the expenditure of about $40,000 for storm water sewers. B. G. Ladowns is City Engr.

ALLENTOWN, PA.—CLADER & BLAZER have been awarded the contract by the City Council for the construction of sewers in Liberty St., from the Lehigh Valley R. R. to the Lehigh River, at $5,417.

WASHINGTON, D. C.—THE WARREN F. BRENIZER CO., Anacostia, D. C., has been awarded the contract by the Commissioners of the District of Columbia for the construction of sewers in the valley of Soap Stone Branch and in Albemarle St., at $10,856.

WHEELING, W. VA.—Contract for ditching and laying sewers has been awarded to MARTIN FLANAGAN by the Board of Public Works at the following prices: National Rd., Seventh St. to point north, 12-in. sewer, 38 cts. per lin. ft.; Cherry St., between Tenth and Eleventh Sts., 12-in. sewer, 47 cts. per lin. ft.; alley between Tenth and Eleventh Sts., 12-in. sewer, 40 cts per lin. ft.; Fifth St., from Eoff St. to Alley E, 12-in. sewer, 47 cts. per lin. ft.; Tenth St., from Lind to Cherry Sts., 15-in. sewer, 45 cts. per lin. ft. Any stone work necessary to be paid for at rate of $1.40 per yd. Charles B. Cooke is City Engr.

CHARLESTON, S. C.—The contract for the brick to be required in the construction of the sewerage system has been awarded to the SUMTER BRICK WORKS at $9 a 1,000. About 250,000 brick will be required.

YORKVILLE, S. C.—Preliminary surveys are to be made by Sompayrac & Urqhart, for the construction of a sewerage system. Estimated cost, $21,000.

ALBANY, GA.—The City Council has decided to expend $37,500 for surface sewerage.

BLUE RIDGE, GA.—It is reported that the construction of a sewerage system is contemplated.

CANTON, GA.—Bonds for $29,500 have been voted by the city for the construction of a sewer system.

HATTIESBURG, MISS.—Bids are asked until Oct. 15, by the City Council for the construction of sanitary sewers. J. H. Putnam is City Engr.

SHREVEPORT, LA.—It is reported that the Shreveport Water-Works Co. will extend the sewerage system. The construction of box conduits have been decided upon. John M. Dortch is City Engr.

CLEVELAND, OHIO.—Ordinance has been passed by the City Council for the construction of brick masonry and vitrified pipe sewer and appurtenances in Denison Ave., S. W., between Cleveland, Cincinnati, Chicago & St. Louis Ry. and West 59th St. Estimated cost, $13,225. Peter Witt is City Clerk. W. J. Carter is City Engr.

*TECUMSEH, MICH.—Bids are asked by the Board of Trustees of Village of Tecumseh, until 1 p. m., Oct. 29, for constructing 6 to 15-in. pipe sewers. W. L. Jones is Clerk.

HAMILTON, OHIO.—City Council has passed an ordinance to issue $25,000 of bonds for sewer and street improvements. A. S. Dillon is City Engr.

YOUNGSTOWN, OHIO.—The Council has passed resolutions for the construction of sewers in Fairview and Ridge Aves. and Iron and Pine Sts. F. M. Lillie is City Engr.

CINCINNATI, OHIO.—Bids are asked by the Board of Public Service until noon, Oct. 11, for constructing sewers in the following streets: Edwards St., estimated cost, $10,210; Madison Road, $2,831; Cutter St., $2,737; Ravine St., $3,715. M. J. Keefe is Clerk of Bd.; C. N. Dannenhower is City Engr.

STEUBENVILLE, OHIO.—Bids are asked by T. W. Vance, Clerk of the Service Bd., until noon, Oct. 21, for constructing an 18-in. pipe sewer in Wells St., from Bates St. to Wells Run.

MARION, IND.—Estimates for laying two sanitary sewers were submitted to the Board of Public Service by W. H. Sieverling, City Civil Engr., as follows: North Limestone St. sewer, $6,914; West Main St. sewer, $23,227.

VINCENNES, IND.—It is reported that the Board of Public Works is considering plans for new sewers. Joseph V. Hershey is City Engr.

ELKHART, IND.—Bids are asked until Oct. 15, by the Board of Public Works for the construction of a large sewer in East Jackson St. A. M. Smith is City Engr.

DETROIT, MICH.—Bids will probably soon be asked by the Department Public Works for constructing five lateral sewers. Estimated cost is $1.75 per ft. George McCormick is City Engr.

KALAMAZOO, MICH.—Ordinances have been passed by the City Council for the construction of sanitary sewers in various streets. M. C. Taft is City Engr.

HERRIN, ILL.—W. T. Pierce, City Engr., estimates the cost of the proposed sewer system at $39,803.

AURORA, ILL.—The Board of Directors of the St. Charles School for Boys has awarded the contract for the new sewer system for the school to J. A. SPARR, of Springfield, for $13,473.

QUINCY, ILL.—Bids opened by the Board of Local Improvements for the construction of culverts forming a storm overflow sewer between Washington and Jefferson and Front and Fourth Sts. were as follows: Simons & Hartman, $3,447; Roeder & Greeman, $3,642.

BLOOMINGTON, ILL.—Two sewers will be built to drain the western and southwestern parts of the city.

JOLIET, ILL.—The plans for the construction of the First Ward trunk sewer are being prepared. Estimated cost, $31,000. H. A. Stevens is City Engr.

RACINE, WIS.—P. G. PEDERSON was awarded the contract for the laying of a sewer in Twelfth St. at $1.60 a ft., manholes, $35, and catch basins $40 each.

The REICHERT CONSTRUCTION CO. was awarded the contract for a sewer in Yont St. at $2.85 a ft. for the 24-in. and $2.75 a ft. for the 20-in. sewer.

CEDAR RAPIDS, IOWA.—The lowest bidder for the construction of a storm water sewer was R. C. Delahunt at $28,464.

CEDAR RAPIDS, IOWA.—We are officially advised that the contract was awarded on Sept. 30 to M. FORD at $29,207 for constructing 2,550 ft. of 7-ft. brick sewer. T. R. Warriner is City Engr.; W. C. Byers is Chm. Pub. Improvement Com.

MUSCATINE, IOWA.—The contract for the construction of the sewer in East Hill was awarded by the City Council to the CORRY WERNENTIN CO., at 45 cts. a lin. ft.; manhole, $35.

BRAINERD, MINN.—Bids are asked until 8 p. m., Oct. 21, by H. J. Spencer, City Clk., for the construction of 5,100 ft. of sewer.

ST. PAUL, MINN.—NICHOLAS FEYEN has been awarded the contract by the Board Public Works for construction of the sewer on Franklin Ave., from Eustis St. to Raymond Ave., at $4,442.

SALINA, KAN.—JOHN BISHOP was awarded the contract by the City Council for the construction of seven new sewers.

LINCOLN, NEB.—A combined sewer, about 4,200 ft. in length, with 30-in. and 24-in. vitrified pipe, will soon be built. Estimated cost, $11,000. William Grant is City Engr.

AURORA, NEB.—The following bids for construction of sewer system were opened by the City Council: Municipal Construction Co., Kansas City, $8,725; Long & Browitt, University Place, Neb., $8,913; Crawford & Holtz, Wahoo, Neb., $9,010; George M. King, Des Moines, Iowa, $9,061; John Gilligan Co., Falls City, Neb., $9,250; F. S. Dobson, Lincoln, Neb., $9,290; T. W. Roberts, Independence, Mo., $9,294; A. M. Munn, Nebraska City, Neb., $9,894; M. Ford, Cedar Rapids, Iowa, $9,815; W. C. Fraiser Co., Rochester, Minn., $10,800.

EXCELSIOR SPRINGS, MO.—MICHAEL WALSH, Kansas City, has been awarded the contract for the construction of sewer mains in Districts No. 21 and No. 38, at $4,032.

DENTON, TEX.—The franchise for the construction of a sewer system was awarded to M. P. KELLY.

SEATTLE, WASH.—It is reported that the City Council has passed an ordinance appropriating $10,000 for building a sewer in East Denny Way, from Harvard Ave. to Eastlake Ave.

SPOKANE, WASH.—Bids are asked until 2 p. m., Oct. 22, by the Board of Public Works for the construction of the First Ward trunk sewer in District No. 4 and Districts No. 6 and No. 7. Estimated cost, $150,000. Charles McIntyre is City Engr.

OAKLAND, CAL.—The contract for building a sewer on Second St., from Jackson to Madison Sts., was awarded to LOUIS LEINA & CO. F. C. Turner is City Engr.

The lowest bid submitted on Sept. 18 to the City Council for the construction of the Wood St. intercepting sewer was that of C. D. Vincent, at $41,383.

SANTA MONICA, CAL.—It is reported that the City Council contemplates issuing $150,000 of bonds for a sewer system.

SAN FRANCISCO, CAL.—J. A. DOWLING & CO. has been awarded the contract by the Board of Public Works for the construction of the branch sewers north of Market St. in Drumm and Commercial Sts., at $15,879. WILLIAMS & BELSER have been awarded the contract for the work in Stuart, Beale and Fremont Sts. at $5,317.

SALT LAKE CITY, UTAH.—Bids are asked by the Board of Public Works until 8 p. m., Oct. 18, for the work of furnishing and installing pump and motor, constructing pump-house and outlet pipe for intercepting sewer. Louis C. Kelsey is City Engr. F. J. Leonard is Chn. Board of Public Works.

WALLACE, IDAHO.—The city may issue $16,000 of bonds for the construction of new sewers.

GARBAGE DISPOSAL.

(denotes that this work is advertised in Engineering News.)*

*NEWARK, N. J.—Bids are asked by the Board of Street and Water Comrs. until 3.30 p. m., Oct. 10, for collection, removal and disposal of ashes, rubbish material, paper and garbage in the city of Newark for a period of five years, beginning Jan. 1, 1908. Morris J. Sherrard is Ch. Engr. Advertised Oct. 3.

OAK PARK, ILL.—The contract for building garbage crematory in Oak Park is reported to have been awarded by the Village Trustees to LEWIS & KITCHEN, 433 Wabash Ave., Chicago. The structure is to be of fire brick and will be built on North Boulevard, near Euclid Ave.

WACO, TEX.—City awarded contract to DIXON ENGINEERING & CONSTRUCTION CO., Toledo, Ohio, for construction of garbage crematory recently mentioned. Corrugated iron and concrete building will be erected at cost of about $3,000; machinery to be installed to cost $7,500.

STREETS AND ROADS.

(denotes that this work is advertised in Engineering News.)*

BOSTON, MASS.—The following bids were received on Oct. 1 by the State Department for construction of Bayswater St. between Saratoga St. and Austin Ave.: James Doherty, $4,652; Daniel E. Lynch, $5,185; Jones & Meehan, 10 Tremont St., $5,412; D. E. Coleman Co., 294 Washington St., $5,711; Orient Construction Co., $5,912; Frank Williams, $8,087. L. M. Hasings is City Engr.

SOUTHBORO, MASS.—B. PERINI & BIANCHI, of Ashland, have been awarded the contract by the State Highway Commissioners for construction of a gravel State highway about 2,450 ft. in length, running from the Ashland line to the village of Cordaville, at $3,163.

WOONSOCKET, R. I.—The UNITED STATES WOOD PRESERVING CO., 29 Broadway, New York, has been awarded the contract for paving the Court St. bridge with wood, at $5,800. Frank H. Mills is City Engr.

NEWPORT, R. I.—We are officially advised that the following bids were opened Oct. 1 by Capt. Willis C. Metcalf, Q. M., U. S. A., for repairs of roads and construction of gutters, catch-basins, curbs, cement walks and brick road crossings at Fort Adams: Joseph P. Cotton, Newport, R. I., gutters of cobblestones, brick or granite blocks, as required, $11,455; John F. Sullivan, Newport, R. I., gutters of granite blocks, $12,000; Michael A. McCormick, Newport, R. I. gutters of cobblestone, $12,459; gutters of brick, $12,966; gutters of granite blocks, $13,791.

NEW YORK, N. Y.—The lowest bids opened by Joseph Bermel, Pres. Boro. Queens, for regulating, paving and grading various streets were as follows: For grading Twelfth Ave. from Broadway to Graham Ave., Long Island City, W. E. Lowe, $4,143; grading and repaving Greenpoint Ave. from Betts to Thompson Aves., Newton, Joseph A. Boyce, $17,940; grading Clark St. from Main St. to Van Alst Ave., Long Island City, Dennis McCarthy, $5,292; regulating and grading Jamaica St. from 13th Ave. to Bowery Bay Road, Long Island City, Harry J. Mullin, $19,884.

SYRACUSE, N. Y.—Bids are asked until 1.30 p. m., Oct. 14, by the Board of Contract and Supply, for the construction of a stone, cement, asphalt or brick sidewalk, 4 ft. wide, on the southeast side of Rice and Hopper Sts. Henry C. Allen is City Engr.; George J. Metz is City Clk.

ALBANY, N. Y.—The bids received by the Board of Contract and Supply, Albany, on Oct. 7, for improvement of Sheridan Ave., were: M. F. Dollard, Albany, $10,793; Peter H. Reynolds, Albany, $14,042; Mulderry Bros., Albany, $11,805; E. F. Dillon, Albany, $13,662. The itemized prices of the bid of M. F. Dollard, the lowest bidder, were: 3,070 sq. yds. granite pavement, $2.30; 145 sq. yds. driveways, $2.10; 20 sq. yds. relaying pavement, 50 cts.; 1,510 lin. ft. straight curb, 75

cts.; 64 lin. ft. circular curb, 90 cts.; 30 lin. ft. resetting curb, 40 cts.; 125 sq. ft. crosswalk, 50 cts.; 1,000 sq. ft. flag walk, 22 cts.; 14,570 sq. ft. brick walk, 8 cts.; 7,140 sq. ft. relaying walk, 2 cts.; 8 water services, $18; 150 lin. ft. 6-in. pipe, 35 cts.; 8 6-in. bends, 35 cts.; 4 receiving basins, $75; days to complete, $5 per day, $25.

The bids received on the same day by the Board for the pavement of Providence St. were: M. F. Dollard, $3,953; Mulderry Bros., $4,127; E. F. Dillon, $4,414. Walter Mellus is City Engr.

ITHACA, N. Y.—Bailey, Johnson & Saunders, 121 South Tioga St., Ithaca, will sublet contracts for furnishing plant for macadamizing roads. Contracts are to be completed Oct., 1908.

NEW YORK, N. Y.—Bids are asked until 11 a. m., Oct. 23, by Bird S. Coler, Pres. Boro. of Brooklyn, for regulating, grading and paving various streets in Brooklyn.

JERSEY CITY, N. J.—The BARBER ASPHALT COMPANY, 90 West St., has been awarded contract by the Board of Finance, for asphalting Baldwin Ave. from Montgomery St. to Summit Ave., at $7,000. Charles Van Keuren is Ch. Engr., Street and Water Board.

SCRANTON, PA.—Bids are asked until 11 a. m., Oct. 15, by the Director of Public Works for laying flagstone sidewalks on both sides of seven streets in South Scranton, West Scranton and East Scranton. James Langan is City Engr.

WILMINGTON, DEL.—Bids are asked until noon, Oct. 15, by Francis A. Price, State Highway Commissioner, for construction of a road in New Castle Hundred, leading from Wilmington from a point at or near Eden Park to the town limits of New Castle, a distance of 2.64 miles.

WHEELING, W. VA.—The Board of Public Works has awarded contract to GEORGE W. LEMONS for paving, at 55 cts. per cu. yd. for excavating, $1.15 per cu. yd. for gravel filling, 5 cts. per cu. yd. for sanding and 20 cts. per cu. yd. for laying brick. About 500,000 bricks will be required. SPINDLER & DUDLEY have contract for construction of stone walls on Charles and Coal Sts., at 60 cts. per cu. yd. for excavating, $5.73 for masonry and $4.74 for concrete work.

NEW MARTINSVILLE, W. VA.—C. SKIDMORE, Parkersburg, Va., has been awarded the contract for Wheeling brick paving, to cost from $12,000 to $14,000.

GADSDEN, ALA.—Bids are asked until Oct. 12 for constructing about 20,000 sq. yds. of sidewalk paving and about 30,000 lin. ft. of combined curb and gutter. W. M. Wilson is City Engr.

CLEVES, OHIO.—We are officially advised that the contract for the improvement of Miami Ave., State, Howell and other streets has been awarded to RIMINGER & SON, at $4,800. C. A. Wood is City Engr.; D. W. Gwaltney is City Clk.

BARBERTON, OHIO.—PAUL & HENRY have secured contract for paving the streets along the car line from Second St. to the corporation limits, including High and Cornell Sts., Hunsberger and Lake Aves., and Bolivar Road, at $67,000. Harry Alkorn is City Engr.

HAMILTON, OHIO.—The ANDREWS ASPHALT PAVING CO., of Cincinnati, has been awarded by the Board of Public Service the contract for paving South D St. with Bermudez Lake asphalt, at $23,197. A. L. Dillon is City Engr.

DAYTON, OHIO.—Bids are asked until noon, Oct. 11, by W. A. Maynes, Clk. Bd. Pub. Service, for ten carloads of asphalt for street repair purposes. Robert E. Kline is City Engr.

TROY, OHIO.—Bids are asked until 10 a. m. Nov. 12, by E. E. Pearson, County Audr., Miami County, Ohio, for the building of 2,800 lin. ft. of macadam road, known as the Horse Shoe Bend Improvement, near West Milton, Ohio.

NEW AMSTERDAM, OHIO.—THE McGINTY CONSTRUCTION CO. has been awarded the contract by the Commissioners of Jefferson County for building macadamized road near here, at $50,000.

BELLEFONTAINE, OHIO.—The Board of Public Service has awarded contract to the F. S. MITCHELL CONSTRUCTION CO. for improving the macadam on North Detroit St., from Powell to Orchard Sts., at $4,425.

CINCINNATI, OHIO.—Bids are asked until noon, Oct. 14, by the Board of Public Service, for improving the following streets: Burgoyne St., paving with asphalt; estimated cost, $5,060. Clayton St., 1,830 sq. yds. brick paving, 310 cu. yds. concrete, 1,310 lin. ft. sandstone curb, 900 cu. yds. grading; estimated cost, $5,638. M. J. Keefe is Clerk of Bd.; C. N. Dannehower is City Engr.

M. SULLIVAN & SONS, 703 Mercantile Library Bldg., were awarded the contract by the Commissioners of Hamilton County on Sept. 20, for improving Montgomery Road, at $107,875. Fred Driehs is Clerk Commissioners of Hamilton County.

CINCINNATI, OHIO.—The following bids were received by the Board of Public Service Sept. 18 for improving the streets: Burnett Ave., paving roadway with brick; John W. Sullivan, Mercantile Library Bldg., $7,158; A. J. Henkel & Bro., Mercantile Library Bldg., $7,008; Moran & Springmier, 2415 Lyman St., $7,548; Henry Dieckmier, 108 West McMillan St., $7,576; Connelly Construction Co., 315 East 8th St., $6,903. Grant St., paving roadway with wood block, U. S. Wood Preserving Co., 69 Mercantile Library Bldg., $4,526; William T. Flyn, 1252 Chase Av., $4,358.

The following bids were received by the Board of Public Service, on Sept. 19, for improving the following streets: Burnett Av., paving with wood block: A. J. Henkel & Bro., Mercantile Library Bldg., $75,31; John W. Sullivan, Mercantile Library Bldg., $80,397; Russell & Jannison, 1st Natl. Bank Bldg., $56,078; U. S. Wood Preserving Co., Mercantile Library Bldg., $70,362. Ludlow Ave., paving with wood block: A. J. Henkel & Bro., Mercantile Library Bldg., $54,773; Russell & Jannison, First National Bank Bldg., $56,078; U. S. Wood Preserving Co., Mercantile Library Bldg., $55,766. Bank St., paving with wood block: William T. Flyn, 1252 Chase Ave., $26,529; U. S. Wood Preserving Co., Mercantile Library Bldg., $26,767. Flora St., paving with brick: Connelly Construction Co., 315 East Eighth St., $9,400; B. Niehaus, 39 Corry St., $9,676; A. J. Henkel & Bro., Mercantile Library Bldg., $9,469; M. Sullivan & Son, Mercantile Library Bldg., $9,936; G. P. Walker, 314 Carlisle Bldg., $9,979.

CRAWFORDSVILLE, IND.—Bids are asked until 7.30 p. m., Oct. 17, by the City Council for improvement of Binford St., from Whitlock to Park Aves., by the construction of a cement sidewalk.

NOBLESVILLE, IND.—Bids are asked until 1 p. m., Oct. 11, by N. W. Cowgill, County Audr., for constructing 35 miles of gravel road.

Bids are asked until 10 a. m., Oct. 11, by the Commissioners of Hamilton and Clinton Counties, for constructing 2½ miles of gravel road. ¼

PERU, IND.—Bids are asked until noon, Nov. 4, by the Board of Commissioners of Miami County, for grading, draining and paving about 23½ miles of gravel roads in Richland Township, Miami County. Charles Griswold is County Audr.

GRIFFITH, IND.—Bids are asked until 7.30 p. m., Oct. 12, by the Board of Trustees, for construction of a cement sidewalk upon the east side of Junction Ave.

VINCENNES, IND.—Bids are asked until 2 p. m., Oct. 11, by the Board of Public Works, for the improvement of DuBois St. from Seventh Ave. southeasterly to Eighth St. by curbing the southwest sidewalk with stone and paving with artificial pavement. C. L. V. Tucker is Clk. Bd. Pub. Wks.

The contract for the construction of the Pennington Road has been awarded to BOBE & O'DONNELL, at $22,430; for the Fyffe Road, to P. W. LANAHAN, at $8,222; for the Clark Road, to JOHN H. WINEMILLER and JESS CLARK, at $5,673.

PORTLAND, IND.—Bids are asked until 7.30 p. m., Oct. 11, for grading and gravelling N. B. Hawkins St. from the intersection of Votaw St. to the south line of High St. Walter Hotsenspiller is City Clk.

CRYSTAL FALLS, MICH.—A highway 15 miles in length connecting the village of Crystal Falls and Iron River will be built by Iron County. The survey has been made, and the construction work will be started this fall. A rock crusher, steam road roller and other necessary machinery have already been purchased. It is estimated that three years will be required to build the road. The State specifications will be followed. Estimated cost, $80,000.

CHICAGO, ILL.—Bids are asked until 10.30 a. m., Oct. 14, by the Board Local Improvements for the construction of cement sidewalks on various streets.

BEARDSTOWN, ILL.—Bids are asked until 3 p. m., Oct. 14, by the Board Local Improvements for complete construction of a one-course brick pavement built on a 4-in. Portland cement, concrete foundation, with concrete combined curb and gutter on various streets. This pavement will extend a distance of about 12,000 ft., and will contain approximately 38,461 sq. yds. of surface and approximately 24,160 lin. ft. of combined curb and gutter, with about 1,890 ft. of marginal limestone curb and 64 cast-iron sewer inlets. W. G. Smith, Secy. Bd.

MILWAUKEE, WIS.—Bids are asked until 10.30 a. m., Oct. 11, by the Board Public Works, for grading National Ave., from 21st to 22d Aves., and paving the same with asphalt on a concrete foundation. Charles G. Poetsch is City Engr.

SUPERIOR, WIS.—The following contracts for paving with cement have been awarded by the Board of Public Works: East side of Hughitt St., from 18th to 19th Sts., L. J. STEWART, 21½ cts. per sq. ft.; east side of Ogden St., from First St. to the terminal tracks, G. J. JOHNSON, 18½ cts.; south side of 16th St., from Hammond to Cumming Sts., E. P. EKQUIST, 21 cts.; 332 to 336 West Seventh St., E. HAWARDEN, $1 per lineal ft., for 5-ft. walk; west side of Weeks from 17th to 18th Sts., G. J. JOHNSON, 22 cts. S. M. White is City Engr.

DAVENPORT, IA.—The McCARTHY IMPROVEMENT CO. has been awarded the contract by the Board Local Improvements for paving with brick Sixth Ave., from 12th to 15th St., 13th St., from Fifth St. to Seventh Ave., and 14th St., from Fifth St. to Seventh Ave., at $17,855.

CARTERVILLE, MO.—Bids are asked until Oct. 17 by H. E. Moody, City Clerk, for constructing 39,000 sq. ft. cement sidewalks on five streets. Estimated cost, about $5,300. F. A. Funk is City Engr.

EL PASO, TEX.—El Paso County Commissioners have awarded contract to RICHARD CAPLES at $72,723 for macadamizing road from East El Paso to Ysleta, a distance of about ten miles.

EVERETT, WASH.—A. THORSVIG, the only bidder, has been awarded the contract by the City Council for improvement of Maple St., at $3,724. W. I. Barkhuff is City Engr.

OLYMPIA, WASH.—Bids are asked until 2 p. m., Oct. 15, by the State Highway Commissioners for grading and macadamizing State Aid Road No. 3, near Bellingham. J. B. Weddel is City Engr.

BELLINGHAM, WASH.—The BELLINGHAM CONSTRUCTION CO. has been awarded the contract by the Whatcom County Ry. & Light Co. to pave its right-of-way on Elk St., between Holly and James Sts., at $22,000. H. Titcomb, Bellingham, is Ch. Engr.

SEATTLE, WASH.—The bids received Sept. 28 for paving Yesler Way, from Broadway to 32d St. with asphalt and sandstone, were submitted by the Sparger Concrete Co., Colman Bldg., Seattle, at $116,981, and H. F. John & Co., Colman Bldg., $119,899. R. H. Thomson is City Engr. Itemized bids are given under Contract Prices in this issue.

D. M. LIDDELL has been awarded the contract by the Board of County Commissioners for the construction of the Charles E. Adams Road, at $4,845. R. H. Thomas is City Engr. Work includes construction of 5,597 lin. ft. of roadway and four stone culverts.

EUGENE, ORE.—THE WARREN CONSTRUCTION CO. was awarded the contract by the City Council for paving Willamette St. from Eleventh St. south to 13th St., at $2.50 a sq. yd.

FRESNO, CAL.—Bids are asked until Oct. 21 by the County Supervisors, for the laying of concrete cement and the curbing of the main walks to the court-house from the K St. entrance. I. Teilman is City Engr.

EUREKA, CAL.—Bids are asked until Oct. 14, by the Board of Supervisors, for the construction of a new road 5½ miles in length between Scotia and Camp Five on the east side of the Eel River. G. W. Conners is County Surv.

SAN DIEGO, CAL.—JOHN ENGEBRETSON has been awarded the contract by the City Council for grading Kalmia St. from India St. to the west line of the city park, at $12,857. Olaf Nelson bid $14,306. G. A. Hemecourt is City Engr.

SAN FRANCISCO, CAL.—THE CITY STREET IMPROVEMENT CO., 17th and Harrison Sts., has been awarded the contract by the Board Public Works for repaving Fillmore St., between Sacramento and Fulton Sts., at $22,523. Thomas P. Woodward is City Engr.

LOS ANGELES, CAL.—The following contracts have been awarded by the Board Public Works for improving Edgeware Road: From Temple to Court Sts., C. R. EVES, curb, 34 cts.; cobble gutter, 17 cts.; cement gutter, 17 cts.; sidewalk, 11½ cts. Kane St., from Bonnie Brae to Alvarado Sts., A. H. CALKINS & CO., at $3.60 for grading and graveling; 37 cts. for curb; 18½ cts. for gutter; 14 cts. for sidewalk. Echo Park Ave., from Bellevue to Lagune Sts., F. W. WHITTIER, grading, $3.25; curb, 35 cts.; sidewalk, 14 cts.; crosswalks, $1.75.

SALT LAKE CITY, UTAH.—The following bids were opened by Louis C. Kelsey, City Engr., for paving North State, North Temple and other streets: P. J. Moran, $53,249; J. D. Hanley, $55,303.

MANUFACTURING PLANTS.

PITTSFIELD, MASS.—The Incandescent Mfg. Co. let contract to BECKWORTH & PIKE, 28 Renne Ave., Pittsfield, for building a brick and steel factory, to cost $50,000. M. Thrane, Engr.

SPENCER, MASS.—Joseph F. Wicks, of Worcester, is said to be planning the erection of a brick mill on the site of the Red Mill, Valley St., Spencer, the cost to be about $50,000.

NEW BEDFORD, MASS.—Abbott P. Smith is reported to have had plans prepared by C. R. Makepeace & Co., of Providence, R. I., for a new cotton mill, four stories high, 480 × 130 ft. Equipment, 70,000 spindles. The mill will be located on Hastings Wharf.

PRESTON (Norwich post-office), CONN.—The Preston Woolen Co. has decided to rebuild the mill which was burned last summer. The new structure which will be a 3-story brick building, 60 × 80 ft., will have 18,000 sq. ft. of floor space, apart from the L. Its capacity will be considerably in excess of that of the burned structure.

NEW YORK, N. Y.—E. Feltenbauer's Sons, Brooklyn, have let general contract to M. ARMENDINGER & SON, 1153 Myrtle Ave., Brooklyn, for a 4-story addition, 60 × 100 ft., to factory building. Cost, $30,000.

BUFFALO, N. Y.—Thompson & Frohling, New York, have let general contract to JOHN M. WENTING, Paterson, N. J., for constructing a 3-story milk flour plant, near Buffalo, to cost about $100,000.

PHILADELPHIA, PA.—Estimates are being taken for a 3-story factory building to be erected at Pierce and Orthodox Sts., Frankford, for Gordon Bros. The building will measure 82.2 × 38.2 ft., and will be of brick and stone. A stair tower will also be built to the east side of another building in the plant. Stearns & Castor, Stephen Girard Bldg., Philadelphia are Archs.

EVANSVILLE, PA.—We are officially advised that the FULLER ENGINEERING CO., Allentown National Bank Bldg., Allentown, has contract to construct a plant for the Matcham Portland Cement Co. at Evansville. H. G. Barnhurst is Mechanical Engr., Fuller Engineering Co.

UNIONTOWN, PA.—The Hygeia Co., Uniontown, Pa., will build an addition to its plant, it is stated. Cost, $25,000.

BANGOR, PA.—The York-Bangor Slate Co. has been formed for the purpose of constructing a plant near Bangor, to cost $200,000. It is stated that the quarries will be operated by electricity. M. G. Collings, of York, Pa., is Pres., and Cotton Amy, Mgr.

ALLENTOWN, PA.—We are officially informed that the FULLER ENGINEERING CO., Allentown National Bank Bldg., Allentown, Pa., has secured the contract to build a 4,000-bbl. daily capacity cement mill for the Allentown Portland Cement Co. Work will commence upon this plant at once, and it is expected that the plant will be in operation July 1, 1908. H. G. Barnhurst is Mechanical Engr., Fuller Engineering Co.

BEAVER FALLS, PA.—The plant of the Imperial Glass Co. has been totally destroyed by fire. Loss, about $65,000, with $45,000 insurance. The plant will be rebuilt as soon as the insurance can be adjusted, and will cost about $75,000. H. J. Booth is Secy. of the company.

ALIQUIPPA, PA.—The Cleveland "Leader" states that the Jones & Laughlin Steel Co., Third Ave and Try St., Pittsburg, will establish at its new plant near Aliquippa, a steel rail mill. The ground has been measured off at the new plant, which comprises 1,068 acres on the banks of the Ohio River. W. L. Jones is Gen. Mgr.

PARKERSBURG, W. VA.—Meyercord-Carter Co. will be organized with $125,000 capital stock, it is stated, to manufacture vitriolite tile and plates from 3-16 to ¾ in. thick and of any required dimensions to be used for wainscoting, etc. The plant will be located on site of six acre[illegible] main building, 110 × 400 [illegible] three day tanks of 14 [illegible] lehrs 160 and 125 ft. long, [illegible] capacity, two ing and other structures, [illegible] office buildprepared by R. H. Ad[illegible] are being Parkersburg. About $7[illegible] Fifth St., pended in buildings and [illegible] will be exreported that a wireglass [illegible] ment. It is be operated in connection [illegible]ory will also Beaver, Pa., is Pres.; Geo[illegible] T. Carter, Chicago, Ill., Vice-Pres.; [illegible] Meyercord, Beaver, Pa., Supt. and Ge[illegible] S. Beebe.

GAFFNEY, S. C.—The m[illegible]ment of the Merrimac Mills, has engage[illegible] E. Sirrine of Greenville, S. C., as Arc[illegible] Engr.-in-Charge of proposed erectio[illegible] mill. The company has awarded contr[illegible] to J. M. CURRY for erection of bui[illegible] Electricity will be used for motive power[illegible] 400 HP. to be utilized. Plant will [illegible] about $200,000. E. R. Cash is Gen. Mgr.

KEY WEST, FLA.—M. Valle & Co., Havana, Cuba, will erect a 3-[illegible] concrete building, 150 × 45 ft., in Key West, it is reported, to be equipped for manufacturing cigars. Committee has been appointed to complete arrangements, consisting of Dr. J. N. Fogarty, George W. Allen, Hunt Harris and others.

BUTLER SPRINGS, ALA.—Contract for constructing a 10,000 spindle cotton mill to be erected at Butler Springs, near Childersburg, has been awarded to A. BLAIR of Montgomery. The buildings are to be of brick and the contract to be completed by February, 1908.

COLUMBIA, MISS.—Columbia Ice & Power Co. will erect ice plant in connection with electric light plant. A frame building with iron roof will be erected. A cost of $40,000 to $50,000 is estimated for buildings and machinery for both plants. Lee Elder, Biloxi, Miss., is Mgr.

WINNFIELD, LA.—The stave factory of the Dalton-Clark Stave Co., recently destroyed by fire at a loss of about $25,000 will be rebuilt, it is stated.

LOUISVILLE, KY.—The Louisville Courier-Journal & Louisville Times Co. will expend about $150,000 in reconstructing its building, recently destroyed by fire. Estimated cost, $175,000. John B. Hutchings, 800 Columbia Bldg., Louisville, is Arch. Bruce Haldeman is Pres.

ATWATER, OHIO.—Robert Campbell, East Liverpool, Ohio, is at the head of a company that proposes erecting a pottery for manufacture of fine ware here. The plant will cost about $100,000, and a site has been secured. Complete power plant, equipment, grinding and moulding machinery will be required.

INDIANAPOLIS, IND.—Herbert L. Bass & Co., Archs, Commercial Club Bldg., Indianapolis, have let general contract to the MANSFIELD ENGINEERING CO., 805 Traction Terminal Bldg., Indianapolis, for constructing a 2-story factory building for Allison & Fisher. $35,000.

FORT WAYNE, IND.—The International Engineering Co., incorporated with a capital of $200,000, will erect and equip a factory for the manufacture of engines, machinery and mechanical supplies, it is reported. George H. Loesch, Charles H. Doebler and F. L. Jones are Dirs.

HUNTINGTON, IND.—The Chappell Furnace Co., Morenci, Mich., will move to Huntington, Ind., and its capital stock will be increased to $30,000 by a subscription of $20,000 by Huntington business men. The name of the company will be changed to the Majestic Furnace & Foundry Co. A plant will be erected to include a foundry and machine shop.

DETROIT, MICH.—The Detroit Creamery Co. will construct an addition with a frontage of 180 ft. on Adams Ave. and 100 ft. on Clifford St., plans for which have been prepared by John Scott & Co., Archs., 518 Moffat Bldg., Detroit. The plans call for a 3-story solid brick building on brick foundation, front walls of paving brick, trimmed with Bedford or Amherst stone, with a composition roof, interior of mill construction, with cold storage rooms, elevators and stairways. The building is to be used for the storage of milk and cream and the manufacture of ice cream.

CHICAGO, ILL.—Nimmons & Fellows, Archs., 204 Dearborn St., have let the general contract to the CHARLES W. GINDELE CO., 3333 La Salle St., for erecting a manufacturing plant to be built on the south branch of the Chicago River, north of Archer Ave., for Stein, Hirsch & Co., manufacturers of dextrine, starch and similar products, 2957 Archer Ave. It will comprise six buildings, 1 to 4-story, of mill construction, with concrete foundation, brick superstructures, and will cost about $200,000.

SUMMIT, ILL.—A plant is to be built here for the Corn Products Refining Co., Madison St. and Wabash Ave., Chicago. The site is located on 63d St., and extends from Archer Ave. to the Chicago & Alton R. R. The plant will comprise 33 buildings. They include two 14-story refining buildings, each 150 × 200 ft.; two 8-story starch buildings, 135 × 250 and 150 × 150 ft.; three warehouse and manufacturing buildings, each 150 × 400 ft.; three 2 and 3-story warehouses, 100 × 300 ft.; ten or twelve 4-story manufacturing buildings, 100 × 150 ft., excepting one to be 300 ft. long; a storage building with a capacity of 10,000 tons of gluten feed; grain storage tanks, with a capacity of 1,000,000 bushels; a power plant with a capacity of 12,000 HP. and generators of about 8,000 KW. will be installed. The total cost of the plant is estimated at $5,000,000. The large buildings will be steel construction and the others of reinforced and mill construction. No bids will be received until after Jan. 1. George N. Chamberlain is Ch. Engr.

CORLISS, WIS.—The Wisconsin Engine Co., Corliss, Wis., manufacturer of Corliss engines, will erect two new buildings at its plant soon, plans for which have already been prepared. A pattern shop, 40 × 100 ft., and a storage building, 100 × 220 ft., will be built, both being of concrete and brick construction.

MILWAUKEE, WIS.—H. J. Esser, Arch., 8 Wisconsin St., has made plans for a $25,000 building at the corner of Hilbert and Steward Sts., for the Bay View Tanning Co.

FLOYD, IOWA.—The Great Northern Ry. Co., it is reported, will construct a roundhouse, machine shops, an iron house, storage quarters, etc., in Floyd Valley. Probable cost of work, $2,000,000. A. H. Hogeland, St. Paul, Minn., is Ch. Engr.

ST. PAUL, MINN.—Griggs, Cooper & Co., Third and Wacouta Sts., St. Paul, wholesale grocers, will build a rice factory in the Midway District. It will be three stories high, of pressed brick and cut stone construction. Cost, $50,000.

OMAHA, NEB.—The Home of the Good Shepherd, 40th and Jackson Sts., has let brickwork contract to WILLIAM P. DEVERELL and woodwork contract to THOMAS HERD, both at New York Life Bldg., for a 3-story brick laundry building, 98 × 120 ft. John Latenser, Bee Bldg., is Arch. Cost, $90,000.

COURTNEY, MO.—We are officially advised that the FULLER ENGINEERING CO., Allentown National Bank Bldg., Allentown, Pa., has secured contract to construct a plant for the Blue Seal Portland Cement Co. at Courtney.

ST. JOSEPH, MO.—The Browing Rake & Stock Co. has let general contract to JAMES E. MEEK, Chillicothe, Mo., for erecting a 1½-story brick factory building, 150 × 225 ft., to cost $25,000.

ST. LOUIS, MO.—The Kellerman Contracting Co., Roe Bldg., has let mason contract to R. M. GILLESPIE for a 2-story factory building for the Wrought Iron Range Co., 19th St. and Washington Ave. Cost, $30,000.

The Williams Patent Crusher & Pulverizer Co. will erect a 2 and 3-story factory building, 65 × 132 ft., brick and stone. Cost, $20,000. H. G. Clymer, Chestnut and Seventh Sts., is Arch.

The Greentree Brewing Association has had plans prepared by Widman & Walsh, Archs., Wainwright Bldg., for erection of racking house, washhouse and office, 97 × 170 ft.; two stories, brick and stone construction. Cost, $40,000.

EL PASO, TEX.—The Southwestern Portland Cement Co. has engaged the Cement Engineering Co. of Los Angeles, Cal., to superintend constructing and equipping proposed plant. Buildings will be erected of structural steel, costing about $150,000, and the machinery will have a daily capacity of 1,400 bbls. of cement. C. Leonardt, H. W. Hellman Bldg., Los Angeles, is Pres., and A. Courchesne, of El Paso, Mgr., of the Southwestern Portland Cement Co.

HOUSTON, TEX.—The Chapman Mfg. Co. will erect a building at 605 San Jacinto St., 50 × 100 ft. Capital, $25,000. W. C. Munn, F. E. Pye and R. M. Chapman are interested.

OKLAHOMA CITY, OKLA.—The Goit Mfg. Co., recently incorporated with $500,000 capital stock, will establish plant for the manufacture of steel dumping bodies for converting work wagons to dump wagons, it is reported. Company will erect factory building 150 × 250 ft. at approximate cost of $20,000. W. R. Goit is Gen. Mgr. and Pres.; L. B. Taylor, Secy.-Treas.

TACOMA, WASH.—About $150,000 will be invested in a saw and shingle mill in Tacoma by Joseph Gawley and associates, it is reported. The plant will be erected on the east bank of Hylebos Creek. The company owns timber land between Tacoma and Seattle and in British Columbia. The mill will be located near tidewater. Work on the foundation has been started.

PORTLAND, ORE.—R. Lloyd and W. E. Hampton, Sixth and Mateo Sts., Los Angeles, Cal., will erect a wooden pipe factory in Portland. It is their intention to locate on the North Bank Road. The new plant will supply Portland and other Pacific Coast cities, and will contribute to the irrigation area of Eastern Oregon, Idaho and Washington.

STOCKTON, CAL.—West & Son have decided to construct six auxiliary wineries it is reported, in the grape district, San Joaquin Valley. Crushing machinery will be installed in the new buildings which will be ready next fall. The head office of West & Son is at Stockton.

VANCOUVER, B. C.—Coleman, Spencer & Co., connected with the Milwaukee Lumber Co., First Ave. and East St., Milwaukee, Wis., have decided to proceed at once with erection of a saw mill, logging railroads, etc., at a cost of $500,000. The mill will be located on Emily Lagoon, Mackenzie Sound, and will have a daily output of 120,000 ft.

MISCELLANEOUS CONTRACTS.

(denotes that this work is advertised in Engineering News.)*

U. S. RECLAMATION SERVICE.—All news relative to canal projects, etc., will be found under Water Supply—Irrigation.

WALL.—Toccoa, Ga.—See under Streets and Roads.

DRAIN.—Sac City, Iowa.—Bids are asked until Oct. 11 by J. J. Harter, County Audr., for constructing 9,000 ft. tile drain in Cedar Township.

PIER.—Oceano, Cal.—The contract for building a pleasure pier 1,000 ft. in length at Oceano Beach, Cal., has been let to GREENWELL & DONLON, Ventura, Cal.

CONCRETE DAM.—Harma, Tenn.—WILLIAM McDONALD, of Nashville, has contract for building a concrete dam for the Harma Mill Co. across Elk River. Cost, $5,000.

*LOCKS AND DAMS.—Dallas, Tex.—Bids are asked until noon, Nov. 18, by Capt. W. P. Wooten, Corps Engrs., U. S. A., for building Locks and Dams Nos. 2 and 4, on Trinity River, Tex.

*EXCAVATION.—Detroit, Mich.—Bids are asked until 3 p. m., Nov. 20, by Col. Charles E. L. B. Davis, Corps Engrs., U. S. A., for rock and earth excavation at Section 3, Plan B, Detroit River.

TUNNEL.—Portland, Ore.—Contracts will be awarded soon, it is said, by the Oregon & Washington R. R. Co., for driving a tunnel about 4,900 ft. in length on the Puget Sound extension.

DRAIN.—Rockwell City, Iowa.—Bids are asked by the Auditor of Calhoun County, at Rockwell City, until Oct. 12, for constructing 3,700 ft. tile drain for Sac and Calhoun counties.

DITCH.—Roseau, Minn.—Bids are asked until Oct. 16 by S. G. Iverson, Secy. State Drainage Comn., St. Paul, for constructing State Ditch No. 51. Geo. A. Ralph is State Drainage Engr., Old Capitol Bldg.

DRAINAGE.—Argenta, Ark.—The CRESCENT CONSTRUCTION CO. has contract at $86,062 for draining Dark Hollow. Work will begin Nov. 6 and be completed by May 6, 1908. C. T. Coffman is County Judge.

CEMENT.—Chicago, Ill.—Bids are asked at the office of the U. S. Reclamation Service, 876 Federal Bldg., Chicago, until Oct. 21, for furnishing 12,000 bbls. of Portland cement f. o. b. cars at works of bidder.

LEVEE, DIKE.—Fremont, Neb.—Contract for building levee has been awarded to MATZEN BROS., of Hooper, Neb., at $4,680. Contract for diversion dike was awarded to E. S. BEATTY, of Blair, Neb., at $8,000.

BULKHEAD.—Stockton, Cal.—R. C. Tumelty, City Engr., states that plans have been adopted for constructing bulkhead on north side of Stockton channel, but no bids have yet been called for. A. C. Russel is City Clk.

ORDNANCE.—Washington, D. C.—The Chief of Ordnance, War Dept., Washington, D. C., has awarded to the TREDEGAR IRON WORKS, Richmond, Va., contract for furnishing 334 cast-iron caps for projectiles, at $5 each.

VESSEL.—Washington, D. C.—The Revenue Cutter Service, Treasury Dept., Washington, D. C., has awarded contract to PUSEY & JONES CO., Wilmington, Del., for the construction of Revenue Cutter No. 19, at $49,500.

*MONUMENT.—New Orleans, La.—Bids are asked until 11 a. m., Nov. 14, by Col. E. H. Ruffner, Corps Engrs., U. S. A., for completion of monument to memory of American soldiers who fell in the battle of New Orleans at Chalmette, La.

*LOCK AND DAM.—Vicksburg, Miss.—One bid only was received on Oct. 5 for building Lock and Dam No. 8, in Ouachita River at Franklin Shoals, Ark. Capt. G. M. Hoffman Corps Engrs., U. S. A. The Midland Bridge Co., Kansas City., Mo., submitted a bid of $488,713.

LAND RECLAMATION.—Fort Howard, Md.—The MARYLAND DREDGING & CONTRACTING CO., Fidelity Bldg., Baltimore, Md., has contract to fill in marsh land on Government reservation at Fort Howard, requiring between 200,000 and 300,000 cu. yds. of material.

CANAL.—Houston, Tex.—The canal to be built in Harris County to connect Brays Bayou and Buffalo Bayou probably will be done by the county convict gang, we are advised by Geo. T. Horton, County Engr., Houston. Right-of-way is being secured. Estimated cost, $15,000.

TELEPHONE SYSTEM.—Brandon, Man.—Work on the provincial government telephone system to be constructed in this town will be commenced this fall. All the necessary sites and plans are in readiness. Orrin F. French is Supt. of Telephone Construction, Winnipeg, Man.

DREDGING.—St. Paul, Minn.—Bids are asked by Edward G. Krahmer, County Audr., until 10 a. m., Oct. 21, for cleaning out weeds, mud, etc., from the following lakes in Ramsey County, Minn.: Lake Johanna, four acres; Bald Eagle Lake, five acres; White Bear Lake, three acres.

CONCRETE DAM.—Indianapolis, Ind.—Bids were received by the Board of Park Commissioners Sept. 20 for repairs on the Riverside Park concrete dams. J. Clyde Power, 211 Saks Bldg., Engr. Contract was awarded to the MODERN CONSTRUCTION CO., of Indianapolis, at $7,800.

DREDGING.—Washington, D. C.—Bids were received at the Bureau of Yards and Docks, Navy Dept., Washington, D. C., as follows, Oct. 5, in response to a circular letter for dredging 20,000 cu. yds. at the Washington Navy Yard: John H. Miller, Washington, 27.7 cts. per cu. yd.; $5 per hour for pulling piles.

DRY DOCK.—Long Beach, Cal.—The Craig Shipbuilding Co., Long Beach, Cal., will soon begin work on a floating dry dock. The slip to contain the dock has been finished and tracks, etc., have been laid. It will be of the double dry-dock pattern and will cost about $125,000. John Pugh, Supt. of Const., is in charge.

*DREDGING.—New York, N. Y.—Bids are asked "from contracting companies to dredge a canal about 30 ft. wide through meadow land fronting on Jamaica Bay, New York City. Work is to be begun in about two weeks and continued all winter. Will pay cash for work at any time." Address F 15, care of Engineering News, New York.

DREDGING.—Tacoma, Wash.—Contract has been awarded by Maj. H. M. Chittenden, Corps Engrs., U. S. A., Seattle, for dredging the Puyallup waterway and bulkheading and filling, to A. W. TWEEDEN & CO., Tacoma, representing the Northwest Bridge Co., at about $450,000. Bids were received on Sept. 2 and list of bidders and itemized bids were given on Sept. 19.

*BOARDWALK.—Atlantic City, N. J.—Bids are asked until 8 p. m., Oct. 28, for construction of a boardwalk along the Ocean front between Pacific Ave. and Connecticut Ave., approximately 2,920 ft. in length. It is to be constructed with a wood floor upon wood or reinforced concrete joists supported by reinforced concrete girders and columns. William Riddle, Chm. Council Com.

*SUBWAY.—Reading, Pa.—The bids received at the office of Caleb Weidner, City Clk., on Sept. 25, for the construction of subway and appurtenances under the P. & R. Railway tracks at Spring St., were not opened but returned to contractors. New bids will be called for later. Elmer H. Beard, City Engr.

LIMESTONE QUARRIES.—Newark, N. J.—The Franklin Mineral Co., Prudential Bldg., Newark, will lease on royalty for long or short terms as desired. High-grade calcite for Portland cement. Limestone for fluxing. Dolomite. Situated between Ogdensburg and Franklin Furnace, Sussex County, N. J., on Lackawanna and New York, Susquehanna & Western Railroads.

*DREDGING.—Manchester, Mass.—Bids are asked until 2 p. m., Oct. 18, by the Board of Harbor and Land Commissioners, Room 131, State House, Boston, for dredging in Manchester Harbor, Manchester. Work to be done is dredging about 14,500 cu. yds. of material to make about 2,000 ft. of the main channel in the harbor 6 ft. deep at mean low tide, and 75 ft. wide at the bottom. Frank W. Hodgdon is Ch. Engr.

GUN CARRIAGES.—Washington, D. C.—Bids were opened Oct. 5 by the Chief of Army Ordnance, Washington, D. C., for twelve 15-pounder barbette carriages, model 1903: DETRICK & HARVEY MACHINE CO., $4,011 each (awarded contract); Bethlehem Steel Co., South Bethlehem, Pa., $4,273 each; American & British Mfg. Co., $4,291 each; total, $51,492 if awarded all; U. S. Rapid Fire Gun and Power Co., $5,145.

TORPEDO WHARF.—San Francisco, Cal.—Bids were received as follows on Sept. 28, by Capt. B. F. Cheatham, Constr. Q. M., Fort Winfield Scott, San Francisco, for constructing a torpedo wharf at this post (all are San Francisco bidders): Rickon-Ehrhart Engineering & Constr. Co., 1859 Geary St., $9,067; Mercer-Fraser Co., 1525 Mission St., $7,245; Hyde, Harjis & Co., 13 Stewart St., $8,483; Thomas Thomson, 103 Main St., $6,872; Healy, Tibbitts Constr Co., 268 Market St., $5,480; San Francisco Bridge Co., Monadnock Bldg., $7,473.

*JETTIES.—Cold Springs, N. J.—Bids were received on Oct. 3 by C. A. F. Flagler, Corps Engrs., U. S. A., for constructing stone jetties, involving about 285,000 tons of stone, Cold Springs Inlet, N. J., as follows: For furnishing 285,000 tons of stone, the Bennett Construction Co., of New York, bid $2.37; Seacoast Construction Co., of New York, by John F. Donovan, Pres., $2, and Christie & Lowe, of Chicago, $2.90 per ton. For furnishing material and constructing 2,000 lin. ft. of pile, brush and stone jetty, bids covering per lin. ft. of completed work, the Bennett Co. bid $35, the Seacoast Co., $16, and Christie & Lowe, $50 per foot. For furnishing and constructing 1,050 lin. ft. of pile, brush and stone wings, per lin. ft. of completed work, the same companies bid respectively $35, $12 and $50 per foot.

LEVEES.—New Orleans, La.—The Board of State Engineers, Cotton Exchange Bldg., New Orleans, has awarded following contracts for levee work: DONOVAN & DALEY at 26.40 cts. per cu. yd. for Ashtabula plantation to Pilcher's Landing levee, 22 miles above Lake Providence, La., containing about 145,000 cu. yds.; A. E. PARKER at 21.90 cts. per cu. yd., for Lauderdale levee, nine miles from Donaldsonville, La., containing about 70,000 yards of earth, and at 22.90 cts. for St. Louis levee, eleven miles below Donaldsonville, containing about 50,000 yards of earth; CHAS. J. MARTIN at 17.47 cts. per cu. yd. for Dixie levee and at 24 cts. per cu. yd. for Wilson's to Smith levee; CAMERON & WHITE at 23 cts. per cu. yd. for Nestor canal levee. Bids for the following levees have been rejected: Arkansas line to Ashtabula plantation levee, Bohemia levee and Point Pleasant levee.

*DREDGE.—Philadelphia, Pa.—Bids were received by Maj. J. C. Sanford, Corps, Engrs., U. S. A., Witherspoon Bldg., Philadelphia, on Sept. 30, for constructing a steel hull, 16-in. pump dredge for the Savannah River, as follows: (A) Price as per government specifications; (B) time. (C) Price as per government's specifications, including increased size of hull, suction, and discharge pipe and pump; (D) time. (E) Price as per bidders drawings and specifications; (F) time. Walter H. Gahagan, Brooklyn, N. Y.: (A) $118,720; (B) seven months. (C) $124,200; (D) eight months. (E) $117,720; (F) seven months. Fore River Shipbuilding Co., Quincy, Mass.: (A) $88,000; (B) nine months. (C) $83,000; (D) nine months. Ellicott Machine Co., Baltimore, Md.: (E) $117,770 (recommended for acceptance); (F) 7½ months. Newport News Shipbuilding & Dry Dock Co., New York, N. Y.: (A) $88,000; (B) nine months. (C) $93,000; (D) nine months. Atlantic Equipment Co., New York, N. Y.: (A) $112,150; (B) ten months. (C) $119,750; (D) ten months. (E) $97,500; (F) ten months; 20-in. dredge, $117,500; ten months.

WHARF.—Berkeley, Cal.—Bids are asked by the Board of Trustees until 7.45 p. m., Oct. 28, for the construction of a wharf and approach. J. V. Mendenhall, Clk., advises us that it will be a municipal wharf. It will be partly of concrete piles and partly of pine or eucalyptus piles. It is located on the San Francisco Bay at the foot of University Ave., 400 × 73 ft., at the end of the approach thereto, the approach being about 3,200 ft. from the shore. No earth or rock material will be used. The plans were designed by W. F. McClure, Town Engr. The wharf is to be 20 ft. wide. The proposals for repairing 1,000 lin. ft. of wharf already built are to be submitted at a rate per pile and per 1,000 ft. B. M. of lumber used, the piles to range from 15 to 24 ft. in length. Bids on new construction on approach are also to be a fixed figure per lin. ft.; 1,800 ft. of the wharf will be of concrete piling. Wharf includes sheds and other necessary appurtenances, bids on same to be per sq. ft. The contractor will be required to begin work within 90 days from the date of award of contract and to complete the same within 150 working days.

CONTRACT PRICES.

[Where (*) precedes items under Contract Prices the work was advertised in Engineering News.]

*CONCRETE DAMS.—Cincinnati, Ohio.—Bids in detail were received as follows on Sept. 11 by Lieut.-Col. Wm. T. Rossell, Corps Engrs., U. S. A., Cincinnati, for constructing dams of concrete, etc., (1) at head of Browns Island and (2) head of Marietta Island, Ohio River, and (3) for building one dike and shore protection in Ohio River near head of Grand Chain, Ill.—(A) Pennsylvania Contracting Co., Pittsburg; (B) Knobloch & Shelton, Erie, Pa.; (C) John C. Thomas, Bellaire, Ohio; (D) Oscar F. Barrett, Cincinnati:

For No. 1—

	(A)
165 cu. yds. excavation, ledge rock	$3.00
5,400 cu. yds. excav., loose material	.70
90 lin. ft. anchor bolt holes	.90
110 piles	16.00
8,000 lbs. iron tie rods, etc	.08
2,000 cu. yds. stone (9-18 cu. ft.)	4.00
2,100 cu. yds. stone (¾-3 cu. ft.)	4.00
Earth filling (if required)	.85
2,625 cu. yds. concrete	11.76
40 bbls. extra cement	2.25
Total	$54,172

For No. 2—

	(B)	(C)
10,000 cu. yds. excavation	$0.95	$3.00
198 piles	22.00	10.00
15,000 lbs. iron tie rods, etc	.08	.08
1,200 cu. yds. earth filling	.30	.60
3,700 cu. yds. stone (9-18 cu. ft.)	2.45	6.00
4,000 cu. yds. stone (¾-3 cu. ft.)	1.95	6.00
2,680 cu. yds. concrete	7.77	9.00
40 bbls. extra cement	2.50	2.50
Total	$53,205	$84,020

For No. 3: (D)—500 cu. yds. stone (6-10 cu. ft.), $3.50; 9,500 cu. yds. stone (¾-1½ cu. ft.), $3; total, (C) $30,250.

ASPHALT PAVING.—Seattle, Wash.—Bids were received as follows on Sept. 28 by the Board of Public Works for paving Yesler Way, from Broadway to 32d Ave., with asphalt and sandstone. The bidders and the bids in detail were as follows—(A) Sparger Concrete Co., 502 Colman Bldg., Seattle; (B) H. F. Jahn & Co., 571 Colman Bldg.:

	(A)	(B)
Fixed estimate	$2,500.00	$2,500.00
Clearing and grubbing, lump sum	4,000.00	6,000.00
7,400 cu. yds. subgrade	.75	.75
150 lin. ft. 8" pipe sewer	2.00	1.60
8 catch-basins, no inlets, ea.	55.00	70.00
7 catch-basins, 1 inlet, each	70.00	85.00
1 catch-basin, 2 inlets, each	80.00	90.00
1 new inlet, each	25.00	16.00
1,358 lin. ft. granite curb	2.25	2.25
12,643 lin. ft. concrete curb	.45	.50
391 sq. yds. con. sidewalk	1.30	1.00
10,176.8 sq. yds. asphalt	2.35	2.25
11,081 sq. yds. sandstone	4.65	4.50
2,354 sq. yds. brick gutters	3.30	3.20
1,120 lin. ft. wood stop	.50	.45
29 monument cases, each	10.00	10.00
21 catch-basins, to move, ea.	30.00	35.00
18 inlets, to move, each	5.00	4.00
65 adg C. B., Ntl. & G. C. each	4.00	4.00
102 sq. yds. alley crossing brick	3.30	3.20
200 m. ft. B. M. old timbr.	5.00	3.00
700 cu. yds. concrete bulkhead	8.50	9.50
256 lin. ft. railing	.15	.50
132 lin. ft. 8" c.-i. pipe	2.75	2.20
36 lin. ft. 6" c.-i. pipe	2.25	1.20
1 hydrant	90.00	90.00
24 brick gate chamber, ea.	55.00	40.00
200 lin. ft. galv.-iron pipe	.35	.40
Total	$116,931	$116,900

U. S. POSSESSIONS AND CUBA.

BRIDGE.—Panama.—Bids are asked until 10.30 a. m., Oct. 24, at the office of Col. H. F. Hodges, Gen. Purchasing Officer, Isthmian Canal Commission, Washington, D. C., for furnishing one single-track steel railroad bridge, three-span, to be delivered either at New York or New Orleans.

WATER-WORKS.—Cuba.—We are officially advised that the Department of Public Works, Cuba, received bids on Sept. 25 for first part work for the new Camaguey water-works. The system consists of a centrifugal pumping plant which will force the water against a head of 300 ft. through an 18-in. force main about 6 kilometers long to a double tank, concrete-steel reservoir. From the reservoir a 20-in. supply main, 17 kilometers long, will carry the water to the city distributing system, also to be constructed. The pumping plant and machinery will be let under a second contract, but the rest of the work will be covered by the first contract. The first contract will include the furnishing and laying of about 8,000 tons of cast iron pipe, ranging in size from 4 ins. to 20 ins. The concrete-steel reservoir will require the placing of 635 cu. meters of plain concrete and 1,160 cu. meters of reinforced concrete. The bids received were: The Snare & Triest Co., Havana, Cuba, and 143 Liberty St., New York, $711,907, alternative, $658,589; M. P. Marceau, Muloja 2, Havana, $664,756, alternative $612,276; M. J. Dady, 350 Fulton Ct., Brooklyn, N. Y., and Labordi 4, Matanzas, Cuba, $822,148, alternative, $752,780; C. Hempel, Aguiar 95, Havana, $706,750, alternative, $635,213. Henry A. Young is Engr.-in-Charge.

ENGINEERING SUPPLIES.—Panama.—Bids are asked until 10.30 a. m., Oct. 21, at the office of Col. H. F. Hodges, Gen. Purchasing Officer, Isthmian Canal Commission, Washington, D. C., under Circular 393, for a quantity of engineering supplies, as follows: Four double-acting force pumps, two duplex high-duty water pumps, one fire pump, one nozzle, engine truck wheels and axles, shower heads, stop-cocks, wash tray

plugs, brass clean-outs, brass ferrules and vent hubs, 2,000 ft. lead pipe, 15,000 ft. cast-iron soil pipe and fittings, 15,000 ft. water hose, 5,000 ft. steam hose, 1,250 ft. air house, 1,200 ft. hoisting chain, 120,000 lbs. track bolts, mild steel, zinc, 24 hand-cars, 1,000 wheelbarrows, 180 track jacks, claw-bars, lining bars, track chisels, rail benders, track levels, track gages, track wrenches, monkey wrenches, 1,800 picks, 200 doz. shovels, ballast forks, sledges, cant hooks, timber carriers, scythes, grindstones, anvils, stocks and dies, turn buckles, tacks, 1,000 fire-brick, furniture, etc.

Bids are also asked until 10.30 a. m., Oct. 28, for miscellaneous engineering supplies, as follows: 3,000 lbs. block tin, 1,000 lbs. phosphorus tin, malleable iron castings, grease cups, wire-screening, 3,900 ft. plow steel hoisting rope, 35,000 ft. extra quality manila rope, 12 Wells lights, 2,000 c. p., nuts, washers, furniture, etc.

*Bids are also asked until 10.30 a. m., Nov. 4, for engineering supplies, as follows: 15 large fuel oil tanks, two single punching and shearing machines, one horizontal punching machine, 800 water meters, marine electric fixtures, enameled conduit and conduiet, 2,300 ft. rubber belting, 7,800 ft. leather belting, rawhide belt lacing, canvas duck, drift bolts, boat spikes, nails, brooms, brushes, tackle blocks, bolts, door hardware, hatchets, hammers, chisels, wire rope clips, hose clamps, lubricating oil, etc.

CIVIL SERVICE EXAMINATIONS.

SCIENTIFIC ASSISTANT.—Washington, D. C.—The U. S. Civil Service Commission announces an examination on Oct. 16-17, to secure eligibles to fill vacancies as they may occur in the position of Scientific Assistant in the Department of Agriculture, at salaries ranging from $840 to $2,000 a year, depending upon the experience and qualifications of appointees. As a result of this examination certification will be made to fill two vacancies in the position of Scientific Assistant in rural engineering (road making), Department of Agriculture, at $840 a year. The Department also desires to secure one or two scientific assistants in animal husbandry who are qualified in the special branch of horse industry. Age limit, 20 years. Application Form 1312.

INSPECTOR OF SEWER CONSTRUCTION.—New York, N. Y.—The following are the first 20 on the eligible list for the position of Inspector of Sewer Construction, established Sept. 26 by the Municipal Civil Service Commission:

Taylor, Frederick W. (veteran), 525 West 135th St. 71.90
Shea, Denis J., 1593 Second Ave. 94.30
Egan, Joseph M., 366 West 118th St. 90.80
Perret, Peter F., 1902 Seventh Ave. 89.10
Van Iderstine, Frank, 202 West 106th St. 87.60
Masterson, Alonzo A., 13 Douglass St., Brooklyn 87.10
Wilson, Joseph R., 1775 Bergen St., Brooklyn 86.60
Reid, Thomas E., 77 St. Mark's Pl., Brooklyn 85.80
Wood, William, 300 West 42d St. 84.90
Sharkey, John G., 884 Jefferson Pl., Bronx 84.60
Dalton, William J., 225 West 105th St. 84.60
Laffer, Oscar, 204 and 206 West 111th St. 84.30
MacDonald, Norman P., 131 Cumberland St., Brooklyn 83.20
Kelly, John, 421 West 42d St. 82.90
Malloy, Francis H., Jr., 89 Woodhull St., Brooklyn 82.60
Larkin, Dennis J., 871 East 169th St. 82.50
Clarke, Waldo E., 2 Hampden St., Bronx. 82.40
Burke, John, 768 Amsterdam Ave. 82.20
Clune, Timothy J., 529 East 81st St. 82.10
Fromme, Murray B., 56 West 89th St. 81.80

PLAN EXAMINER.—New York, N. Y.—Following are the first 20 of the eligible list for the position of Plan Examiner, Tenement House Dept., established Oct. 4:

Curtiss, Samuel (veteran), 59 Willett St., Jamaica, Long Island 76.50
Caird, John D., 15 Madison St., Mt. Vernon, N. Y. 98.50
Vander Koogh, Herman, 255 Halsey St., Brooklyn 95.50
Larke, Richard A., 12th Ave. and 68th St. Brooklyn 93.60
Shanahan, John J., 428 East 58th St. 93.00
Herlihy, Patrick, 320 East 90th St. 93.00
Goldner, Abram H., 305 East 79th St. 92.20
Pfaff, Charles H., 605 Ralph St., Ridgewood Heights, Long Island 92.20
Scheibel, Henry, 29 Melrose St., Brooklyn. 91.00
Sheppard, Charles, 467 Grove St., Ridgewood, Long Island 90.50
Noonan, Joseph E., 669 2d av. 90.00
Green, Thomas, 677 Bedford Ave., Brooklyn 89.30
Uhr, Philip E., 242 East 71st St. 89.20
Hoag, George L., 326 60th St., Brooklyn. 89.00
Harris, Henry G., 3 East 17th St. 89.50
Jaffy, Charles, 1471 Fifth Ave. 88.20
Leon, Leslie L., 183 West 88th St. 88.10
Cahoon, Frederic H., 138 West 62d St. 88.00
McArdle, Michael J., 1469 73d St., Brooklyn 87.20
Jacobowitz, Milton I., 158 Diamond St., Brooklyn 86.00

TRADE PUBLICATIONS.

"EXTRA-HEAVY VALVES."—Jenkins Bros., 17 John St., New York City; 93 Queen Victoria St., E. C., London. Paper; 5 × 7¾ ins.; pp. 12; illustrated.

The extra-heavy brass globe, angle, check, and "Y" or blow-off valves here shown are made in sizes from ⅛ in. to 3 ins., inclusive, screwed or flanged. They are designed for 300 lbs. working steam pressure, and tested to 800 lbs. hydraulic pressure. The extra-heavy iron-body valves, globe and angle, run from 2½ to 12 ins., inclusive, screwed or flanged. These are guaranteed for a working steam pressure of 250 lbs. Prices are given for all sizes.

MACHINE TOOLS.—The Burke Machinery Co., Cleveland. Folder 4⅛ × 7 ins.; pp. 4; supplementary sheets for insertion in Morden price-book; illustrated.

The Malterner hand shaper, lever-driven, two 10-in. sensitive drill presses, a circular metal-saw, and a power pump are described in these various sheets.

METALLIC VALUES OF ORES.—The Traylor Engineering Co., 2 Rector St., New York City. Data Card No. 10 (for open mailing); 6 × 9 ins.

This four-column table gives 60 different ores, with the chemical composition of each; the common percentage of metal in each; and the specific gravity limits. It is a convenient ready-reference table for the desk of a mining man.

RAILWAY WATER SUPPLIES.—U. S. Wind Engine & Pump Co., Batavia, Ill. Paper; 7 × 10¼ ins.; pp. 48; illustrated.

The supplies include elevated water tanks and towers, tank fixtures, water columns, pumping plants operated by deep-well pumps, and gasoline or steam engines or windmills. There are price lists of the various appliances, and of pipe, pipe fittings and other supplies.

CENTRIFUGAL PUMPS.—The D'Olier Engineering Co., Philadelphia. Bulletin—Series T, No. 8; paper; 7 × 10 ins.; pp. 8; illustrated.

This bulletin shows two 2-stage turbine pumps—one 15-in., 4,500 gals. per min. at 270-ft. head, 860 r. p. m., and one 2-in., 100 gals. per min. at 105-ft. head, 1,800 r. p. m.; and one "volute" double suction pump, 24-in., 14,000 gals. per min. at 30-ft. head, 435 r. p. m. All are direct driven

For other Proposal Advertisements see pages 55, 56, 57, 58, 59, 60, 61, 62 of Advertisements and Construction News page 124.

SANITARY SEWER SYSTEM.

Tecumseh, Michigan, Oct. 7th, 1907.

Sealed bids will be received by the Board of Trustees of the Village of Tecumseh, Michigan, at the council chamber, until one o'clock P. M., Oct. 29th, 1907, for furnishing all labor and material for building—

1,020 ft. 15 inch pipe sewer.
500 ft. 12 inch pipe sewer.
11,348 ft. 10 inch pipe sewer.
28,227 ft. 8 inch pipe sewer.
14,674 ft. 6 inch pipe sewer.

Together with all necessary manholes, flush tanks, masonry and Y branches.

Bidding blanks and schedules will be furnished by the corporation clerk.

Plans and specifications may be seen at the office of the clerk in Tecumseh and at the office of The Riggs & Sherman Co., Engineers, Toledo, Ohio.

A certified check on local bank for $1,000.00 must accompany each bid as a guarantee of good faith.

A surety bond for $25,000.00 will be required of the successful bidder.

The Board of Trustees reserve the right to reject any or all bids or to waive defects in bids in the interest of the Village.

By order of the Board.

W. L. JONES,
15-1t Clerk.

WATER-WORKS, ETC.

Rome, N. Y.

Contracts expected to be advertised during early winter months.

The attention of intending bidders is now directed to work described below in order that they may look over the ground before topographical features and physical conditions are obscured by snow.

INTAKE DAM ON FISH CREEK.—A cyclopean masonry dam and gate house. About 2,500 cubic yards of masonry.

TUNNEL.—A six foot diameter tunnel through rock; 5,500 feet long connecting with gate house at the Fish Creek dam and a manhole at its southerly end.

AQUEDUCT.—A concrete masonry aqueduct, 36 inches in diameter and 31,000 feet long, including masonry culverts and other appurtenances, connecting the manhole at the southerly end of tunnel with a distributing reservoir at the Hamlet of Stokes.

RESERVOIR.—A 12,000,000-gallon distributing reservoir at the Hamlet of Stokes with earth embankments and masonry gate house and appliances.

Further information can be obtained from Knight & Hopkins, Engineers on this work, Rome, N. Y.

HARVEY S. BEDELL, Chairman.
BARTON HASELTON,
H. W. BARNARD,
J. T. WIGGINS,
RAY ARMSTRONG, Clerk.
Board of Water and Sewer Commissioners.
15-2t

ROAD AND BRIDGE WORK.

Troy, O.

Sealed proposals will be received at the County Auditor's office in Troy, Miami County, Ohio, until 10 o'clock A. M. of Tuesday, November 12th, 1907, for furnishing the material and performing the labor necessary for the building of 2,800 lineal feet of macadam road, known as the Horse Shoe Bend Improvement, near West Milton, Ohio; also the substructure for bridge and reinforced concrete culvert.

Approximate quantities:

5,000 cu. yds. earth excavation.
28,000 cu. yds. rock excavation.
2,070 cu. yds. masonry.
160 cu. yds. reinforced concrete.
3,373 sq. yds. macadam.
360 lin. ft. of piling.

Plans and specifications for same are now on file in the County Auditor's office.

Fifteen Hundred Dollars ($1,500) cash deposit or certified check must accompany each bid for whole contract, or Five Hundred Dollars ($500) for each bid or any part thereof, as a guarantee of good faith.

Bids must be made on blank forms, which may be procured at the Auditor's office.

Bids should be marked "Proposals for Horse Shoe Bend Improvement," and addressed to E. E. Pearson, County Auditor, Troy, Ohio.

The Board reserves the right to award the contract in parts, or as a whole, and may reject any or all bids.

By order of the Board of Commissioners, and Turnpike Directors of Miami County, Ohio.

E. E. PEARSON,
County Auditor.
H. J. WALKER, County Engineer. 15-1t

REINFORCED CONCRETE ARCH BRIDGE.

Williamsport, Md.

Bids will be received up to noon of Wednesday, Oct. 30th, 1907, by the Washington & Berkeley Bridge Co., of Williamsport, Md., for a Reinforced Concrete Arch Bridge, 15 spans, total length 1,570 ft., over the Potomac River at that point. Plans and specifications will be on file and can be examined at Cushwa's & Sons office next the bridge site, and at the office of Mason D. Pratt, Consulting Engineer, Harrisburg, Pa. Bids will be considered from responsible, experienced, and competent reinforced concrete contractors only and a certified check for $10,000 must accompany each bid.

EDWARD W. BYRON, Sec'y.,
15-2t Williamsport, Md.

MACADAM ROADS.

Ithaca, N. Y.

Will sublet and furnish plant for

8,000 cu. yds. local stone (bottom course), half-mile haul.
4,000 cu. yds. limestone (top course), 1½ mile haul; stone on cars, $1.15.
10,000 cu. yds. excavation, guard rail paving, etc.

Contracts to be completed Oct., 1908.

BAILEY, JOHNSON & SAUNDERS,
15-1t 121 South Tioga St., Ithaca, N. Y.

Situations Wanted

MECHANICAL ENGINEER, college graduate, wants position as designer or assistant engineer; 5½ years' experience in general machine designing; best references. Address "Z. A., 15," Engineering News, New York. 15-1t

MECHANICAL ENGINEER, technical graduate; contractor's superintendent and draftsman; design and erection of contractors' plant and equipment; practical field and office experience in civil as well as mechanical engineering; fitted to take charge of work involving both branches. Full references, including present employer. Will go anywhere in U. S. Address "A. A. 14," Engineering News, New York. 15-2t

STRUCTURAL ENGINEER, graduate, Assoc. Mem. Am. Soc. C. E., open for immediate engagement anywhere. Eight years' experience, mainly in connection with the design and construction of power stations and other structures for railroad and electric power companies. Past eighteen months chief draftsman for large street railway at $225 a month. Address "A. B. 15," Engineering News, New York. 15-1t

Mechanical Engineer

WANTED—Position as assistant to consulting engineer, by mechanical engineer (24) with two years' structural experience. Salary depends on locality. Address "D. A. 15," Engineering News, New York. 15-1t

Situations Open

WANTED.—A first-class sandstone and lime-stone foreman superintendent to take charge of cutting sandstone. Must be competent, able to lay out work, and none but a hustler need apply. Apply to CHAS. E. HALL & Co., E. Cambridge, Mass. 15-3t

WANTED.—Timekeeper and shipping clerk for crushing plant; a man who has had experience in this line. Address "L. 14," Engineering News, New York. 15-4t

WANTED.—Two good steam roller engineers, must be experienced in macadam road work. Address "S. A. 15," Engineering News, New York. 15-1t

WANTED.—An experienced engineer or practical business man on excavation, concrete construction and paving work, who can invest five thousand dollars ($5,000) and services in a well established business. Large amount of work now on hand, and over five hundred (500) men employed. Only those with experience and the money need apply. SVEN HANSEN, 631 Park Place, Brooklyn, N. Y. 15-1t

A SUCCESSFUL, PROFITABLE MANUFACTURING FIRM NEEDS

Active Executive Manager

able to invest in firm's stock, paying 18% dividend. Full investigation allowed. Exceptional opportunity and safe investment. Write GEORGE G. BRADLEY, 1 Union Square, New York. 15-1t

Miscellaneous Wants

WE WANT YOUR WORK
SEND IT ALONG.

Computations, estimates, drawings, maps, lettering, plotting, etc., of all descriptions. All work done in a first class manner by experienced engineers and draftsmen. Address "Engineers," care of Engineering News, New York. 15-2t

FOR SALE

FOR SALE.

ONE No. 5 EMERSON STEAM PUMP

has suction and discharge pipe and strainers; price, $400.

BERLIN CONSTRUCTION CO.,
Berlin, Conn. 15-1t

FOR SALE.

Eight (8) improved Lidgerwood double drum electric hoists, 25 HP., equipped with solenoid emergency brakes and swinging gear.

Also stiff leg derricks, 60-ft. booms.

Can be seen in operation at Brooklyn Anchorage of Manhattan Bridge.

KOSMOS ENGINEERING COMPANY,
25 Adams Street, Brooklyn, N. Y. 15-3t

FOR SALE.

Steam Shovel Plant

POSSESSION AT ONCE.

1—60-ton shovel, 2-yd. dipper, good as new; only worked 8 months.
2—9 × 14 Porter Loco., 3-ft. gage.
28—K. & J. 3-yd. cars, 3-ft. gage.
60 ton 35-lb. rails. 15-3t
Pumps, boiler, pipe, etc.

VICTOR CONSTRUCTION CO.,
1514 Franklin Street, Allegheny City, Pa.

IMMEDIATE DELIVERY

Two 100 H. P.
Two 125 H. P.
One 150 H. P.

Internally Fired Boilers

KINGSFORD Foundry and Machine Works
OSWEGO, N. Y.